	PREVIEW	CLOSE
Quiz: Proportions		

Question 1a of 8 (3 solving a proportion for 'x' 91339)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	24
Question:	Solve the proportion below.
	A v

 $\frac{4}{9} = \frac{x}{54}$

X = _____

	The correct answer is: 24.	
	Global Incorrect Feedback	
	Correct!	
	Correct Feedback	
1st		
Attem	Attempt Incorrect Feedback	

Question 1b of 8 (3 solving a proportion for 'x' 289213)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	35
Question:	Solve the proportion below.

 $\frac{x}{45} = \frac{7}{9}$

X = _____.

Attemp	ot	Incorrect Feedback
1st	1st	
	С	orrect Feedback
	С	orrect!
	G	lobal Incorrect Feedback

Question 1c of 8 (3 solving a proportion for 'x' 289214)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	12
Question:	Solve the proportion below.



X = _____.

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback]
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 12.	

Question 2a of 8 (3 solving a proportion for 'x' 91340)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	42
Question:	Solve the proportion below.

 $\frac{7}{x} = \frac{19}{1^{\circ}4}$

Question 2b of 8 (3 solving a proportion for 'x' 289215)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	24
Question:	Solve the proportion below.

 $\frac{7}{x} = \frac{28}{96}$

X = _____.

Attemp	Attempt Incorrect Feedback	
1st		
	С	orrect Feedback
	Correct!	
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 24.

Question 2c of 8 (3 solving a proportion for 'x' 289216)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	12
Question:	Solve the proportion below.

 $\frac{5}{x} = \frac{30}{72}$

X = _____.

Attemp	pt Incorrect Feedback	
1st	st	
	Correct Feedback	
	Correct!	
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 12.

Question 3a of 8 (3 solving a proportion for 'x' 91341)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2Correct Answer:2Question:Solve the proportion below.

$$\frac{x}{12} = \frac{12}{72}$$

X =____.

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 2.	

Question 3b of 8 (3 solving a proportion for 'x' 289217)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1
Question:	Solve the proportion below.

 $\frac{9}{81} = \frac{x}{9}$

 $X = ____.$

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 1.	

Question 3c of 8 (3 solving a proportion for 'x' 289218)

Maximum Attempts: Question Type:

1 Numeric Fill In Blank Maximum Score:2Correct Answer:9

Question:

Solve the proportion below.

$$\frac{x}{6} = \frac{6}{4}$$

X = ____.

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 9.	

Question 4a of 8 (3 solving a proportion for 'x' 91342)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	15
Question:	Solve the proportion below.
	$\frac{9.5}{19} = \frac{x}{30}$

X = _____.

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
Correct!		prrect!
	Global Incorrect Feedback	
	The correct answer is: 15.	

Question 4b of 8 (3 solving a proportion for 'x' 289219)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	21

Question:

Solve the proportion below.

 $\frac{x}{10.5} = \frac{7}{3.5}$

X =____.

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		prrect!
	Global Incorrect Feedback	
	The correct answer is: 21.	

Question 4c of 8 (3 solving a proportion for 'x' 289220)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Solve the proportion below.

<u>x</u>= 85 18 17

ĸ	=	

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 9.	

Question 5a of 8 (3 solving a proportion for 'x' 91343)

Maximum Attempts:	1	
Question Type:	Numeric Fill In Blank	
Maximum Score:	2	
Correct Answer:	9	
Question:	Solve the proportion below.	

X	_	45
12.6	-	63

	X =		
Attempt	Incorrect Feedback		
1st	1st		
Correct Feedback			
Correct!			
Global Incorrect Feedback			
٦	he correct answer is: 9.		

Question 5b of 8 (3 solving a proportion for 'x' 289221)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	60
Question:	Solve the proportion below.

 $\frac{11}{12.1} = \frac{x}{66}$

	<i>X</i> =
ot	Incorrect Feedback
С	orrect Feedback
Correct!	
G	lobal Incorrect Feedback
Tł	ne correct answer is: 60.
	ot Co G

Question 5c of 8 (3 solving a proportion for 'x' 289222)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	10
Question:	Solve the proportion below.

 $\frac{x}{29} = \frac{2}{5F}$

	<i>X</i> =		
Attemp	t Incorrect Feedback		
1st	1st		
	Correct Feedback		
Correct!			
Global Incorrect Feedback			
	The correct answer is: 10.		

Question 6a of 8 (3 solving a proportion for 'x' 91344)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	120
Question:	Solve the proportion below.
	$\frac{90}{x} = \frac{3}{4}$

		X =
Attemp	ot	Incorrect Feedback
1st		
	C	orrect Feedback
	Correct!	
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 120.

Question 6b of 8 (3 solving a proportion for 'x' 289223)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	42
Question:	Solve the proportion below.
	$\frac{54}{x} = \frac{9}{7}$

X = _____.

Attem	Attempt Incorrect Feedback	
1st		
	C	orrect Feedback
Correct!		
Global Incorrect Feedback		
	The correct answer is: 42.	

Question 6c of 8 (3 solving a proportion for 'x' 289224)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	66
Question:	Solve the proportion below.

 $\frac{55}{x} = \frac{5}{6}$

X = _____.

Attemp	tempt Incorrect Feedback	
1st	1st	
	C	orrect Feedback
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 66.	

Question 7a of 8 (3 solving a proportion for 'x' - word problem 91345)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	13.5
Question:	Solve the problem using proportions, and enter your answer in the box below. Do <i>not</i> include units in your answer.
	At a certain time of day, a tree casts a 9-foot shadow at the same time that a person 6 feet tall casts a 4-foot shadow. What is the height of the tree?

Attempt Incorrect Feedback	
----------------------------	--

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 13.5.

Question 7b of 8 (3 solving a proportion for 'x' - word problem 289225)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Solve the problem using proportions, and enter your answer in the box below. Do <i>not</i> include units in your answer.

A certain brand of candy is sold by weight, with a 3-ounce bag costing 75 cents. If a bag of this candy costs \$2.00, how heavy is it?

Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 8.		

Question 7c of 8 (3 solving a proportion for 'x' - word problem 289226)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	14
Question:	Solve the problem using proportions, and enter your answer in the box below. Do <i>not</i> include units in your answer.

At a certain time of day, a person 6 feet tall casts a 4-foot shadow. How long is the shadow cast by a 21-foot tree at the same time?

Attempt Incorrect Feedback	
1st	
(Correct Feedback

Correct!
Global Incorrect Feedback
The correct answer is: 14.

Question 8a of 8 (3 solving a proportion for 'x' - word problem 91346)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	24
Question:	Solve the problem using proportions, and enter your answer in the box below. Do <i>not</i> include units in your answer.

Deon worked 16 hours last week at the grocery store and earned \$92.00. If he continues to earn the same hourly pay, how many additional hours must he work to earn another \$138.00?

Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	С	Correct!	
	Global Incorrect Feedback		
	Tł	The correct answer is: 24.	

Question 8b of 8 (3 solving a proportion for 'x' - word problem 289227)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Solve the problem using proportions, and enter your answer in the box below. Do <i>not</i> include units in your answer.

Lester worked 12 hours last week at the grocery store and earned \$92.00. If he continues to earn the same hourly pay, how many additional hours must he work to earn another \$69.00?

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	

The correct answer is: 9.	

Question 8c of 8 (3 solving a proportion for 'x' - word problem 289228)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	27
Question:	Solve the problem using proportions, and enter your answer in the box below. Do <i>not</i> include units in your answer.
	Them worked 10 hours last weak at the exerting goods store and

Thom worked 18 hours last week at the sporting goods store and earned \$92.00. If he continues to earn the same hourly pay, how many additional hours must he work to earn another \$138.00?

Attemp	ot	Incorrect Feedback	
1st			
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		
	Tł	ne correct answer is: 27.	

	PREVIEW	CLOSE
Quiz: Rational Expressions		

Question 1a of 8 (3 substituting a value for 'x' in a rational expression 91681) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-2
Question:	What is the value of the rational expression below when x is equal to 5?
	45

15 -	- x
x -	10

Attemp	Attempt Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -2.	

Question 1b of 8 (3 substituting a value for 'x' in a rational expression 289237)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	What is the value of the rational expression below when <i>x</i> is equal to 4?

х	12
X	- 8

Attemp	mpt Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 2.

Question 1c of	Duestion 1c of 8 (3 substituting a value for 'x' in a rational expression 289238)	
Maximum Attempts:	1	
Question Type:	Numeric Fill In Blank	
Maximum Score:	2	
Correct Answer:	-3	

Question:

What is the value of the rational expression below when x is equal to 3?

 $\frac{12}{x-6}$

Attemp	empt Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -3.	

Question 2a of 8 (3 substituting a value for 'x' in a rational expression 91682)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	What is the value of the rational expression below when x is equal to 4?

 $\frac{x+20}{x+4}$

Attemp	ot	ot Incorrect Feedback	
1st			
	С	orrect Feedback	
	Correct!		
	Global Incorrect Feedback		
	Τł	ne correct answer is: 3.	

Question 2b of 8 (3 substituting a value for 'x' in a rational expression 289239)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2

Correct Answer:2Question:What is the value of the rational expression below when x is equal to 4?



Attemp	pt Incorrect Feedback		
1st			
	С	orrect Feedback	
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 2.		

Question 2c of 8 (3 substituting a value for 'x' in a rational expression 289240)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	What is the value of the rational expression below when x is equal to 3?



Attemp	mpt Incorrect Feedback	
1st		
	Correct Feedback	
	С	prrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 4.

Question 3a of 8 (3 finding the zeroes of a rational function 91683)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	For what value of x is the rational expression below equal to zero?
	x-8

 $\overline{x+8}$

Attemp	empt Incorrect Feedback	
1st	1st	
Correct Feedback		
	С	prrect!
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 8.

Question 3b of 8 (3 finding the zeroes of a rational function 289241)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	For what value of <i>x</i> is the rational expression below equal to zero?

 $\frac{2 x}{2 + x}$

Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	Tł	ne correct answer is: 2.	

Question 3c of 8 (3 finding the zeroes of a rational function 289242)

1
Numeric Fill In Blank
2
4
For what value of x is the rational expression below equal to zero?

 $\frac{x-4}{x-2}$

Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Correct!
Global Incorrect Feedback
The correct answer is: 4.

Question 4a of 8 (3 finding the zeroes of a rational function 91684)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-10
Question:	For what value of x is the rational expression below equal to zero?
	$\frac{20+2x}{5-x}$

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	Correct!	
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: -10.

Question 4b of 8 (3 finding the zeroes of a rational function 289243)

1
Numeric Fill In Blank
2
-5
For what value of x is the rational expression below equal to zero?

 $\frac{3x+15}{6-x}$

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: -5.	

Question 4c of 8 (3 finding the zeroes of a rational function 289244)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-6
Question:	For what value of x is the rational expression below equal to zero?
	12 . 1v

 $\frac{17+78}{6-x}$

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		prrect!
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: -6.

Question 5a of 8 (3 finding when a rational function is undefined 91685)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1
Question:	For what value of <i>x</i> is the rational expression below undefined?

$$\frac{1-x}{x+1}$$

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	С	prrect!
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: -1.

Question 5b of 8 (3 finding when a rational function is undefined 289245)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2

Correct Answer:-3Question:For what value of x is the rational expression below undefined?

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: -3.	

Question 5c of 8 (3 finding when a rational function is undefined 289247)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-4
Question:	For what value of x is the rational expression below undefined?



Attempt Incorrect Feedback			
1st			
	Correct Feedback		
С		orrect!	
	Global Incorrect Feedback		
	The correct answer is: -4.		

Question 6a of 8 (3 finding when a rational function is undefined 91686)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	6
Question:	For what value of x is the rational expression below undefined?
	Эм <i>Б</i>

 $\frac{3x-5}{x-6}$

Attempt		Incorrect Feedback
1st		
Correct Feedback		
С		prrect!
Glo		lobal Incorrect Feedback
Т		ne correct answer is: 6.

Question 6b of 8 (3 finding when a rational function is undefined 289248)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	For what value of <i>x</i> is the rational expression below undefined?

 $\frac{3x \quad 12}{9-x}$

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
С		prrect!	
Global Incorrect Feedback		lobal Incorrect Feedback	
The correct answer is: 9.		ne correct answer is: 9.	

Question 6c of 8 (3 finding when a rational function is undefined 289249)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	7
Question:	For what value of x is the rational expression below undefined?



Attempt	Incorrect Feedback
1st	
	Correct Feedback

	Correct!
Global Incorrect Feedback	
	The correct answer is: 7.

Question 7a of 8 (1 finding when a rational function is undefined 135068)

Chaine	
Question:	A rational expression is undefined whenever its denominator is zero.
Maximum Score:	2
Question Type:	True-False
Maximum Attempts:	1

	Choice
*A.	True
В.	False

Attempt	Incorrect Feedback	
1st	Correct!	
(Correct Feedback	
(Correct!	
	Global Incorrect Feedback	
-	The correct answer is: True.	

Question 7b of 8 (1 finding when a rational function is undefined 289251)

Maximum Attempts:

Question Type: True-False

1

Maximum Score: 2

Question:

A rational expression is undefined whenever its numerator is zero.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

Question 7c of 8 (1 finding when a rational function is undefined 289252)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: A rational expression is undefined whenever its denominator is zero.

	Choice		Feedback	
* A .	True		Correct!	
В.	False			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: True.	

Question 8a of 8 (3 finding the zeroes of a rational function 135070)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	For what value of x is the rational expression below equal to zero?

 $\frac{x-4}{(x+5)(x-1)}$

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
Correct!		orrect!
	Global Incorrect Feedback	
	The correct answer is: 4.	

Question 8b of 8 (3 finding the zeroes of a rational function 289253)

1
Numeric Fill In Blank
2
9
For what value of x is the rational expression below equal to zero?

$$\frac{x-9}{(x-4)(x+4)}$$

Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Correct!
Global Incorrect Feedback
The correct answer is: 9.

Question 8c of 8 (3 finding the zeroes of a rational function 289254)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1
Question:	For what value of x is the rational expression below equal to zero?
	v 1

 $\frac{x-1}{(x-3)(x+1)}$

Attempt Incorrect Feedback		
1st		
	Correct Feedback	
Correct!		orrect!
	Global Incorrect Feedback	
	The correct answer is: 1.	

	PREVIEW	CLOSE
Quiz: Simplifying Rational Expressions		

Question 1a of 8 (3 reducing a fraction 91550)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3/5
Question:	Reduce the fraction below. Use the slash (/) as a fraction bar.

 $\frac{15}{25}$

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
Correct!		prrect!
	Global Incorrect Feedback	
	The correct answer is: 3/5.	

Question 1b of 8 (3 reducing a fraction 289407)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4/5
Question:	Reduce the fraction below. Use the slash (/) as a fraction bar.

<u>24</u> 30

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 4/5.	

Question 1c of 8 (3 reducing a fraction 289409)

1
Text Fill In Blank
2
false
2/7
Reduce the fraction below. Use the slash (/) as a fraction bar $% \left(\left({\left({\left({\left({\left({\left({\left({\left({\left({$



Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	G	lobal Incorrect Feedback
	The correct answer is: 2/7.	

Question 2a of 8 (3 reducing a fraction 91551)

Question Type: Text Fill In Blank	
Maximum Score: 2	
Is Case Sensitive: false	
Correct Answer: 1/4	
Question: Reduce the fraction below. Use the slash (/) as a fraction	bar.

6	
24	

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 1/4.	

Question 2b of 8 (3 reducing a fraction 289410)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/6
Question:	Reduce the fraction below. Use the slash (/) as a fraction bar.

<u>8</u> 48

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
Correct!		orrect!	
	Global Incorrect Feedback		
	The correct answer is: 1/6.		

Question 2c of 8 (3 reducing a fraction 289411) Maximum Attempts: 1

Maximum Attempts:	
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/3
Question:	Reduce the fraction below. Use the slash (/) as a fraction bar.

5 15

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	Correct Feedback	
Correct!		orrect!
	Global Incorrect Feedback	
	The correct answer is: 1/3.	

Question 3a of 8 (2 reducing a rational expression 91552)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question:

Which of the following is equal to the rational expression when x - 2 or -6?

 $\frac{3(x+2)}{(x+6)(x+2)}$

	Choice	Feedback		
Α.	$\frac{1}{x+2}$			
В.	$\frac{3}{x+2}$			
*C.	$\frac{3}{x+6}$	Correct!		
D.	$\frac{1}{x+6}$			
	Global Incorrect Feedback			

The correct answer is: $\frac{3}{x+6}$.

Question 3b of 8 (2 reducing a rational expression 289412)

1
Multiple Choice
2
<i>→</i>
Which of the following is equal to the rational expression when $x = 2$ or -4?

	Choice	Feedback
*A.	$\frac{5}{x+4}$	Correct!
В.	$\frac{1}{x^2}$	
C.	$\frac{5}{x-2}$	
D.	$\frac{1}{x-4}$	

Global Incorrect Feedback

Question 3c of 8 (2 reducing a rational expression 289432)

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2

Question:

Which of the following is equal to the rational expression when x or -1?

 $\frac{5(x-1)}{(x+1)(x-1)}$

1

	Choice	Feedback
Α.	$\frac{5}{x-1}$	
В.	$\frac{5}{(x-1)(x+1)}$	
C.	$\frac{5(x-1)}{x+1}$	
*D.	$\frac{5}{x+1}$	

Global Incorrect Feedback		
The correct answer is:	$\frac{5}{x+1}$	
The correct allswer is.	····.	

Question 4a of 8 (2 reducing a rational expression 91553)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which of the following is equal to the rational expression when $x = 3$ or -10?
	(x+5)(x-3)

 $\frac{(x+3)(x-3)}{(x-3)(x+10)}$

	Choice	Feedback
* A .	$\frac{x+5}{x+10}$	Correct!

В.	$\frac{x+5}{x-3}$	
C.	$\frac{x-3}{x+10}$	
D.	$\frac{x-3}{x+5}$	

Global Incorrect Feedback	
	x+5
The correct answer is:	x+10

Question 4b of 8 (2 reducing a rational expression 289414)

 Maximum Attempts:
 1

 Question Type:
 Multiple Choice

 Maximum Score:
 2

 Question:
 Which of the following is equal to the rational expression when x is or -1?

 $\frac{(x-7)(x+1)}{(x+1)(x-5)}$

	Choice		Feedback
Α.	$\frac{x-7}{x+1}$		
В.	$\frac{x+1}{x-5}$		
C.	$\frac{x+1}{x-7}$		
*D.	$\frac{x}{x-5}$		Correct!
		Global Incorreg	t Feedback

Global Incorrect Feedback	
The correct answer is:	$\frac{x-7}{x-\xi}$

Question 4c of 8 (2 reducing a rational expression 289415)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2

Question:

Which of the following is equal to the rational expression when x or -9?

 $\frac{(x-4)(x+11)}{(x+9)(x-4)}$

	Choice	Feedback
*A.	x+11 x+9	Correct!
В.	$\frac{x+11}{x-4}$	
C.	$\frac{x-1}{x+9}$	
D.	$\frac{x-4}{x+11}$	

Global Incorrect Feedback	
	x +11
The correct answer is:	x+9 .

Question 5a of 8 (3 reducing a rational expression 91554)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	+
	Which of the following is equal to the rational expression when x 5?

$$\frac{x^2 - 25}{x - 5}$$

	Choice	Feedback
А.	$\frac{x+5}{x-5}$	
В.	<i>x</i> - 5	
C.	$\frac{1}{x+5}$	
*D.	<i>x</i> + 5	Correct!

Global Incorrect Feedback
The correct answer is: $x + 5$.

Question 5b of 8 (3 reducing a rational expression 289416)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:

Which of the following is equal to the rational expression when x 3?

 $\frac{x^2-9}{x+3}$

	Choice	Feedback
Α.	$\frac{x-3}{x+3}$	
*В.	x-3	Correct!
C.	x-3	
D.	$\frac{1}{x-3}$	

Global Incorrect Feedback	
The correct answer is: $\chi - 3$.	

Question 5c of 8 (3 reducing a rational expression 289417)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is equal to the rational expression when $x = 6$?

 $\frac{x^2-36}{x+6}$

	Choice	Feedback
Α.	$\frac{1}{x-E}$	
В.	2+3	
*C.	x-3	Correct!

D.	x ² -6		
		Global Incorrect Feedback	
		The correct answer is: X-6.	

Question 6a of 8 (3 reducing a rational expression 91555)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is equal to the rational expression when x - 2 or 3?



	Choice	Feedback
Α.	$\frac{x+2}{x-3}$	
В.	$\frac{x+3}{x-2}$	
C.	$\frac{x+2}{x-2}$	
*D.	$\frac{x+3}{x-3}$	Correct!

Global Incorrect Fee	dback
	<u>x+3</u>
The correct answer is:	x-3.

Question 6b of 8 (3 reducing a rational expression 289418)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is equal to the rational expression when $x = 4$ or 3?
	$\frac{x^3 - 4x + 3}{x^2 + x - 12}$

	Choice	Feedback	
Α.	$\left[\frac{x-1}{x-3}\right]$		
*В.	$\frac{x-1}{x+4}$	Correct!	
C.	$\frac{x-1}{x+4}$		
D.	$\left \frac{x-3}{x+1} \right $		

Global Incorrect Feedback	
	x – 1
The correct answer is:	x-4

Question 6c of 8 (3 reducing a rational expression 289419)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	<u>→</u>
	Which of the following is equal to the rational expression when $x = 5$ or -3?

 $\frac{x^2+x-6}{x^2-2x-15}$

	Choice		Feedback	
*A.	x-2 x-5		Correct!	
В.	$\frac{x-2}{x+3}$			
C.	$\frac{x+3}{x-5}$			
D.	$\frac{x-6}{x-5}$			
		Global Incorrec	t Feedback	

The correct answer is: $\frac{x-z}{x-\xi}$.

Question 7a of 8 (1 reducing a rational expression 135071)Maximum Attempts:

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	factor
Question:	Reducing rational expressions is a lot like reducing numerical fractions; you first need to the numerator and denominator.

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
	Global Incorrect Feedback	
	The correct answer is: factor.	

Question 7b of 8 (1 reducing a rational expression 289420)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	numerator, numerater
Question:	The first step in reducing a rational expression is to factor both its and denominator.

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: numerator.		

Question 7c of 8 (1 reducing a rational expression 289421)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	factor
Question:	The first step in reducing a rational expression is to both the numerator and denominator.

Attempt Incorrect Feedback			
1st			
	С	orrect Feedback	
	С	prrect!	
	G	lobal Incorrect Feedback	
	The correct answer is: factor.		

Question 8a of 8 (3 reducing a rational expression 135072)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1
Question:	If the common factor $(x + 1)$ is divided out of the original expression, the reduced expression will be equal to the original expression only when <i>x</i> does not equal

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
Correct!		prrect!
	Global Incorrect Feedback	
	The correct answer is: -1.	

Question 8b of 8 (3 reducing a rational expression 289422)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-6
Question:	If the common factor $(x + 6)$ is divided out of the original expression, the reduced expression will be equal to the original expression only when x does not equal

Attempt Incorrect Feedback		
1st		
Correct Feedback		
	Correct!	

Global Incorrect Feedback	
The correct answer is: -6.	

Question 8c of 8 (3 reducing a rational expression 289423)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	If the common factor $(x - 2)$ is divided out of the original expression, the reduced expression will be equal to the original expression only when x does not equal
Attempt Incorrect Fe	eedback

1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 2.	
	PREVIEW	CLOSE
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Quiz: Dividing Rational Expressions		

Question 1a of 9 (3 dividing fractions 91370)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	9/10
Question:	Calculate the quotient of the fractions below. Enter your answer as a fraction, using the slash (/) as the fraction bar.



Attemp	npt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 9/10.	

Question 1b of 9 (3 dividing fractions 289601)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	20/49
Question:Calculate the quotient of the fractions below. Enter your ans fraction, using the slash (/) as the fraction bar.	



Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		

Question 1c of 9 (3 dividing fractions 289612)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	33/25
Question:	Calculate the quotient of the fractions below. Enter your answer as a fraction, using the slash (/) as the fraction bar.

$\frac{3}{5}$ $\frac{5}{11}$

Attemp	npt Incorrect Feedback		
1st			
	Correct Feedback		
Со		prrect!	
	Global Incorrect Feedback		
	The correct answer is: 33/25.		

Question 2a of 9 (3 dividing fractions 91371)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	8/15
Question:	Calculate the quotient of the fractions below. Enter your answer as a fraction, using the slash (/) as the fraction bar.



Attempt Incorrect Feedback		Incorrect Feedback	
1st			
	Correct Feedback		
Correct!		prrect!	
	Global Incorrect Feedback		
	Tł	ne correct answer is: 8/15.	

Question 2b of 9 (3 dividing fractions 289613)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	8/15
Question:	Calculate the quotient of the fractions below. Enter your answer as a fraction, using the slash (/) as the fraction bar.



Attemp	npt Incorrect Feedback		
1st			
	Correct Feedback		
Correct!		orrect!	
	Global Incorrect Feedback		
	The correct answer is: 8/15.		

Question 2c of 9 (3 dividing fractions 289614)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	21/2
Question:Calculate the quotient of the fractions below. Enter your a fraction, using the slash (/) as the fraction bar.	

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		orrect!
	Global Incorrect Feedback	
	The correct answer is: 21/2.	

Question 3a of 9 (3 dividing rational expressions 91372)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which of the following is the quotient of the rational expressions shown below?

$$\frac{x+2}{x-1} \div \frac{3}{2x}$$

	Choice	Feedback
Α.	$\frac{3}{x-1}$	
*В.	$\frac{2x^2 + 4x}{3x - 3}$	Correct!
C.	4 <u>×</u> -3	
D.	$\frac{3x+6}{2x^2-2x}$	

Global Incorrect Feedback		
	$2x^{2} + 4x$	
The correct answer is:	3x-3	

Question 3b of 9 (3 dividing rational expressions 289615)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

$\frac{x-2}{x+3} \div \frac{2}{\times}$

	Choice	Feedback
Α.	$2x-2$ $x^{2}+3x$	
В.	$\frac{2x-4}{x^2+3x}$	
C.	$\frac{x}{2x+3}$	

* D . $\frac{x^2 - 2x}{2x + 6}$		Correct!	
	Global Incorrec	ct Feedback	
	The correct answ	یڈ 2یر veris: 2x+6.	

Question 3c of 9 (3 dividing rational expressions 289616)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

x+2		2×	
$\overline{x+8}$	÷	3	

	Choice	Feedback
Α.	$\frac{x^2 + 2x}{3x + 4}$	
В.	2x ⁴ i 4x Ex+24	
*C.	<u>3×+6</u> 2× ⁵ +18z	Correct!
D.	$\frac{2x^2+5}{2x^2-1}$	

Global Incorrect Feedback	
The correct answer is: $\frac{3x+\hbar}{2x^2+16x}$.	

Question 4a of 9 (3 dividing rational expressions 91373)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?
	$\frac{5x}{2x+3} \div \frac{x+1}{3x}$

Choice	Feedback
--------	----------

Α.	1 3	
В.	<u>15</u> 5x+5	
C.	$\frac{5x^2 + 5x}{6x^2 + 9x}$	
*D.	$\frac{15x^2}{2x^2 + 5x + 3}$	Correct!

Global Incorrect Feedback	
	15x ²
The correct answer is:	$2x^2 + 5x + 3$

Question 4b of 9 (3 dividing rational expressions 289618)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

$$\frac{x}{3x-1} \div \frac{x-2}{2x}$$

	Choice	Feedback	
Α.	$\frac{4x^2}{6x^2-2x}$		
*B.	$\frac{2x^2}{3x^2-7x+2}$	Correct!	
C.	$\frac{3x}{4x-3}$		
D.	$\frac{2x}{5x-1}$		
Global Incorrect Feedback			

Global Incorrect Feedback	
The correct answer is:	$\frac{2x^2}{3x^2-7x+2}$

 $\label{eq:constraint} \textbf{Question 4c of 9} \ (\ \texttt{3} \ \texttt{dividing rational expressions 289619} \)$

Maximum Attempts: 1

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

 $\frac{2x}{4x+3} \div \frac{x-1}{2x}$

	Choice	Feedback
*A.	$\frac{4x^2}{4x^2-x-3}$	Correct!
В.	$\frac{x^3}{4x^2-x-3}$	
C.	$\frac{x-1}{4x+3}$	
D.	$\frac{4x}{3x+2}$	

Global Incorrect Feedback	
The correct answer is: $\frac{4x^4}{4x^4-x-3}$.	

Question 5a of 9 (3 dividing rational expressions 91374)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

$$\frac{2x-3}{5x^2} \div \frac{x-5}{3x-1}$$

	Choice	Feedback
*A.	$\frac{6x^2 - 11x + 3}{5x^3 - 25x^2}$	Correct!
В.	$\frac{10x^2 - 11x - 6}{9x^3 - 3x^2}$	
C.	$\frac{x-4}{5x^2}$	
D.	$\frac{-2x+3}{5x^2+2x}$	



Question 5b of 9 (3 dividing rational expressions 289621)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

4x	3x+2
2x-1	• x+5

	Choice	Feedback
Α.	$\frac{12x^3 + 8x}{2x^3 + 9x - 5}$	
В.	$\frac{5x+5}{5x+1}$	
C.	$\frac{5x+5}{2x^2-5}$	
*D.	$\frac{4x^2 + 20x}{6x^2 + x - 2}$	Correct!

Global Incorrect Feedback		
The correct answer is:	$\frac{4x^2+20x}{6x^2+x-2}$	

Question 5c of 9 (3 dividing rational expressions 289622)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

$\frac{2x+5}{3x} \div \frac{2x-1}{2x+1}$

	Choice	Feedback
А.	$\frac{-2x-5}{3x}$	

*В.	$\frac{4x^2+12x+5}{6x^2-3x}$	Correct!
C.	$\frac{4x^3+8x-5}{6x^2+3x}$	
D.	4x + 4 5x + 1	

Global Incorrect Feedback		
	4x ² +12x+5	
The correct answer is:	6x ² - 3x	

Question 6a of 9 (3 dividing rational expressions 91375)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

$$\frac{2x^3}{x+5} \div \frac{x-5}{3x-1}$$

	Choice	Feedback
Α.	$\frac{2x^4}{3x^2 - x}$	
В.	$\frac{2x^3 + 3x - 1}{x^2 + 25}$	
*C.	$\frac{6x^4 - 2x^3}{x^2 - 25}$	Correct!
D.	$\frac{2x^4 - 10x^3}{3x^2 + 14x - 5}$	

Global Incorrect Feedback
6x ⁴ - 2x ³
The correct answer is: $x^2 - 25$

Question 6b of 9 (3 dividing rational expressions 289623)

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2

1

Question:

Which of the following is the quotient of the rational expressions shown below?

 $\frac{x+2}{2x+7} \div \frac{x^4}{x-2}$

	Choice		Feedback
*A.	$\frac{x^2-4}{2x^2+7x^4}$		Correct!
В.	$\frac{x^4 + x + 2}{\Im x + 5}$		
C.	$\frac{x^4 + 2x^4}{2x^4 + 3x - 14}$		
D.	$\frac{-x^4}{2x+7}$		
		Global Incorre	ct Feedback

The correct answer is: $\frac{\mu^2 - 1}{2\mu^4 - 7\mu^4}$.

Question 6c of	9	(3 dividing rational expressions 289624)
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Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

х	4	2x+3	
22	?	$\frac{1}{2}$ x + 4	

	Choice		Feedback
Α.	$\frac{-2x-3}{2x^2}$		
*В.	$\frac{x^2 - 1E}{4x^2 - 3x^2}$		Correct!
C.	$\frac{2x^2 - 5x - 12}{2x^2 + 6x^2}$		
D.	$\frac{2x}{2t^2+2x+3}$		

Global Incorrect Feedback	
The correct answer is: $\frac{x^2 - 16}{4x^2 - Ex^2}$.	

Question 7a of 9 (3 dividing rational expressions 91376)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which of the following is the quotient of the rational expressions shown below?



	Choice	Feedback
*A.	$\frac{3x+15}{4x+10}$	Correct!
В.	$\frac{4x^2 + 10x}{3x^2 + 15x}$	
C.	$\frac{6x^2}{2x^2 + 15x + 25}$	
D.	3 4	

Global Incorrect Feedback 3x + 15

The correct answer is: $\frac{6x + 10}{4x + 10}$.

Question 7b of 9 (3 dividing rational expressions 289625)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

 $\frac{2x}{x-1} + \frac{5x}{2x+4}$

	Choice	Feedback
Α.	$\frac{10x^2}{2x^2+2x-4}$	
В.	$\frac{7x}{3x-3}$	
C.	$\frac{4x+4}{6x-1}$	

* D. $\frac{4x+8}{5x-5}$		Correct!	
	Global Incorrec	t Feedback	
	The correct answ	ver is: $\frac{4x+8}{5x-5}$.	

Question 7c of 9 (3 dividing rational expressions 289626)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below?

 $\frac{4x+1}{6x} \div \frac{x}{3x-1}$

	Choice	Feedback
Α.	$\frac{12\kappa^3-1}{6\kappa^2}$	
В.	<u>4x+1</u> 18x-6	
*C.	$\frac{12x^2-x-1}{6x^2}$	Correct!
D.	$\frac{5x+1}{9x-1}$	

Global Incorrect Feedback	
	$\frac{12x^2 - x - 1}{x^2}$
The correct answer is:	6x" .

Question 8a of 9 (3 dividing rational expressions 91377)

1

Maximum Attempts:

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below? Make sure your answer is in reduced form.

$$\frac{7x^2}{2x+6} \div \frac{3x-5}{x+3}$$

Ch	noice	Feedback
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<u>*A.</u>	$\frac{7x^2}{6x-10}$	Correct!
В.	$\frac{6x-10}{7x^2}$	
C.	$\frac{21x^3 - 35x^2}{2x^2 + 12x + 18}$	
D.	$\frac{6x^2 + 8x - 30}{7x^3 + 21x^2}$	
E.	$-\frac{7x^3 + 21x^2}{6x^2 + 8x - 30}$	

Global Incorrect Feedback

The correct answer is: $\frac{7x^2}{6x-10}$.

Question 8b of 9 (3 dividing rational expressions 289627)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below? Make sure your answer is in reduced form.

 $\frac{3x-6}{x^2} - \frac{x-2}{2x-1}$

	Choice	Feedback
*A.	$\frac{5x^2 - 15x + 6}{x^4 - 2x^2}$	
В.	$\frac{4x-B}{x^2+2x-1}$	
C.	$\frac{6x-3}{x^2}$	
D.	$\frac{5x-7}{x^3+x-2}$	
Е.	$\frac{3x^2 - 12x + 12}{2x^4 - x^2}$	

Global	Incorrect Feedback	

	6x ² -15x+6
The correct answer is:	$x^4 - 2x^3$

Question 8c of 9 (3 dividing rational expressions 289628)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the quotient of the rational expressions shown below? Make sure your answer is in reduced form.

 $\frac{2x-1}{x+1} - \frac{3x^2}{x^2+x}$

	Choice	Feedback
Α.	$\frac{5x^4 - 3x^2}{x^2 + 2x^2 + x}$	
В.	$\frac{3x^2+2x-1}{x^2+2x+1}$	
C.	$\frac{x^2+3x-1}{3x^2+x+1}$	
*D.	$\frac{2x-1}{3x}$	Correct!
Ε.	$\frac{6x^4 - 3x}{x^2 + 2x + 1}$	

Global Incorrect FeedbackThe correct answer is: $\frac{2x-1}{3x}$.

Question 9a of 9 (1 dividing rational expressions 329766)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	If $\frac{a}{b}$ and $\frac{c}{d}$ are rational expressions, then:

$$\frac{a}{b} \div \frac{c}{d} = \frac{a \bullet d}{b \bullet c}$$

	Choice	Feedback
* A .	True	
В.	False	

Global Incorrect Feedback

Question 9b of 9 (1 dividing rational expressions 329767)

Maximum Attempts: 1 Question Type: True-False Maximum Score: 2 Question: If $\frac{a}{b}$ and $\frac{c}{d}$ are rational expressions, then:

 $\frac{a}{b} \div \frac{c}{d} = \frac{a \bullet c}{b \bullet d}$

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback The correct answer is: False.

Question 9c of 9 (1 dividing rational expressions 329768)

Maximum Attempts: 1 True-False Question Type: Maximum Score: 2 Question: If $\frac{a}{b}$ and $\frac{c}{d}$ are rational expressions, then:

$$\frac{a}{b} \div \frac{c}{d} = \frac{a \bullet d}{b \bullet c}$$

	Choice	Feedback
* A .	True	
В.	False	

Global Incorrect Feedback The correct answer is: True.

	PREVIEW	CLOSE	
Quiz: Multiplying Rational Expressions			

Question 1a of 9 (1 multiplying fractions 91362)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2/21
Question:	Calculate the product of the fractions below. Enter your answer as a fraction in lowest terms, using the slash (/) as the fraction bar.



Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	С	Correct!	
	Global Incorrect Feedback		
	The correct answer is: 2/21.		

Question 1b of 9 (1 multiplying fractions 289517)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	21/20
Question:	Calculate the product of the fractions below. Enter your answer as a fraction in lowest terms, using the slash (/) as the fraction bar.



Attemp	pt Incorrect Feedback	
1st	1st	
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	

Question 1c of 9 (1 multiplying fractions 289518)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	15/8
Question:	Calculate the product of the fractions below. Enter your answer as a fraction in lowest terms, using the slash (/) as the fraction bar.



Attemp	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 15/8.	

Question 2a of 9 (1 multiplying fractions 91363)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4/55
Question:	Calculate the product of the fractions below. Enter your answer as a fraction in lowest terms, using the slash (/) as the fraction bar.



Attemp	ot	Incorrect Feedback	
1st	t		
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 4/55.		

Question 2b of 9 (1 multiplying fractions 289520)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	15/34
Question:	Calculate the product of the fractions below. Enter your answer as a fraction in lowest terms, using the slash (/) as the fraction bar.



Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 15/34.		

Question 2c of 9 (1 multiplying fractions 289521)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7/33
Question:	Calculate the product of the fractions below. Enter your answer as a fraction in lowest terms, using the slash (/) as the fraction bar.



Attemp	ot	Incorrect Feedback	
1st	1st		
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 7/33.		

Question 3a of 9 (1 multiplying rational expressions 91364)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which of the following is the product of the rational expressions shown below?

 $\frac{3}{x+7} \cdot \frac{4}{x}$

	Choice	Feedback
Α.	$\frac{7}{x^2 + x}$	
В.	$\frac{12}{2x+7}$	
*C.	$\frac{12}{x^2 + 7x}$	Correct!
D.	$\frac{7}{x^2 + 7x}$	
L		

Global Incorrect Feed	dback
	12
The correct answer is:	$x^2 + 7x$.

Question 3b of 9 (1 multiplying rational expressions 289522)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{2}{x+1} \cdot \frac{5}{3x}$

	Choice	Feedback
*A.	1] 3x ² + 3x	Correct!
В.	$\frac{5}{x^2+3}$	
C.	$\frac{10}{3x+3}$	
D.	$\frac{5(x+1)}{6x}$	



Question 3c of 9 (1 multiplying rational expressions 289523)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{2}{x} \cdot \frac{3}{7x-5}$

	Choice	Feedback
Α.	$\frac{3}{x^2 - 5x}$	
В.	$\frac{5x}{x-5}$	
C.	$\frac{6}{2x-5}$	
*D.	$\frac{6}{2x^2-5x}$	Correct!

Global Incorrect Feedback
<u> </u>
The correct answer is: 2x ² b ⁱ .

Question 4a of 9 (1 multiplying rational expressions 91365)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{5}{2x+1} \cdot \frac{6}{x}$

	Choice	Feedback
*A.	$\frac{30}{2x^2 + x}$	Correct!

В.	$\frac{15}{x^2 + x}$	
C.	<u>30</u> 3x+1	
D.	$\frac{11}{2x^2 + x}$	
	Clabel Incorre	at Foodbook

Global Incollect reeuback
_30
The correct answer is: $2x^2 + x$.

Question 4b of 9 (1 multiplying rational expressions 289524)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{3}{x+2},\frac{7}{2x}$

	Choice		Feedback	
Α.	$\frac{21}{2x+4}$			
в.	42 2x ² + 4x			
c.	$\boxed{\frac{42}{2x+4}}$			
*D.	$\frac{21}{2x^2+4x}$		Correct!	
		Global Incorrec	ct Feedback	
			ار. ار	

The correct answer is: $2x^2 + 4x$

Question 4c of 9 (1 multiplying rational expressions 289525)

. . .

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

	Choice	Feedback
Α.	9 x ² + 3x	
В.	$\frac{9}{x+3}$	
*C.	$\frac{18}{2x^2+3x}$	Correct!
D.	$\frac{18}{x+3}$	

Global Incorrect Feedback 13 The correct answer is: $2x^2+3x$.

Question 5a of 9 (1 multiplying rational expressions 91366)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

$$\frac{x-3}{x+5} \cdot \frac{3x}{x-5}$$

	Choice	Feedback
Α.	$\frac{3x^2 - 9x}{x}$	
В.	$\frac{3x^2 - 3x}{x^2 - 25}$	
C.	$\frac{3x^2 - 3}{x^2 - 10}$	
*D.	$\frac{3x^2 - 9x}{x^2 - 25}$	Correct!

Global Incorrect Feedback

	3x ² – 9x
The correct answer is:	x ² - 25 .

 $\frac{2}{2x+3} \cdot \frac{9}{x}$

Question 5b of 9 (1 multiplying rational expressions 289527)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which of the following is the product of the rational expressions shown
below?

 $\frac{7x}{x+3} \cdot \frac{x+1}{x-3}$

	Choice	Feedback
*A.	$\frac{7x^2+7x}{x^2-9}$	Correct!
В.	$\frac{7x^2+7x}{x^2-6}$	
C.	$\frac{7x^2 + x}{x^2 - 6}$	
D.	$\frac{7x^2+x}{x^2-9}$	

Global Incorrect Feedback	
² + 7 <u>x</u> ² - 9	

Question 5c of 9 (1 multiplying rational expressions 289528)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{x+2}{x-4} \cdot \frac{3x}{x+4}$

	Choice	Feedback
Α.	$\frac{3x^2+2x}{x-6}$	
В.	<u>3х+6</u> х ² – 16	
*C.	$\frac{3x^2+6x}{x^2-16}$	Correct!
D.	$\frac{4x+2}{x^2}$	

Global Incorrect Fee	dback
The correct answer is:	$\frac{3x^2+6x}{x^2-16}$

Question 6a of 9 (1 multiplying rational expressions 91367)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{x+3}{x+7}\cdot\frac{x-3}{x-7}$

	Choice	Feedback
Α.	$\frac{x^2 - 4}{x^2 - 9}$	
*B.	$\frac{x^2 - 9}{x^2 - 4}$	Correct!
C.	$\frac{\chi^2}{\chi^2 - 4}$	
D.	9 4	

Global Incorrect Feedback		
The correct answer is:	$\frac{x^2-9}{x^2-4}$	

Question 6b of 9 (1 multiplying rational expressions 289529)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{x-1}{x+5} \cdot \frac{x+1}{x-5}$

	Choice	Feedback
*A.	$\frac{x^2 - 1}{x^2 - 26}$	Correct!



The correct answer	is:	x ² - 2
--------------------	-----	--------------------

Question 6c of 9 (1 multiplying rational expressions 289530)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{x+6}{x+3}\cdot\frac{x-6}{x-3}$

	Choice	Feedback
Α.	$\frac{2x-12}{x-3}$	
В.	$\frac{x-12}{x-6}$	
C.	$\frac{x^2-12}{x^2-6}$	
*D.	$\frac{x^2 - 36}{x^2 - 9}$	Correct!
	Clobal In	perreat Foodbook

Global Incorrect Fee	edback
The correct answer is:	$\frac{x^2-36}{x^2-9}$

Question 7a of 9 (1 multiplying rational expressions 91368)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?



Question 7b of 9 (1 multiplying rational expressions 289531)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

The correct answer is $\frac{1}{\chi^2 + 5\chi + \delta}$.

 $\frac{x}{x-3} \cdot \frac{2x}{x+5}$

	Choice	Feedback
*A.	$\frac{2x^2}{x^2+2x-15}$	Correct!
В.	$\frac{2x^2}{x^2+2}$	
C.	$\frac{x^3}{x^2-2x+15}$	
D.	$\frac{3x}{2x+2}$	

Global Incorrect Feedback	
2x ²	
The correct answer is *+2x=15.	

Question 7c of 9 (1 multiplying rational expressions 289532)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?



	Choice		Feedback	
Α.	$\frac{x^2}{x^2-2}$			
В.	$\frac{4x}{2x+1}$			
*C.	$\frac{3x^2}{x^2+x-2}$		Correct!	
D.	$\frac{4x^2}{x^2+1}$			
		Global Incorreg	at Eeedback	

Global Incorrect Feedback
The correct answer is $\frac{3x^2}{x^2+x-2}$.

Question 8a of 9 (1 multiplying rational expressions 91369)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{x}{x-5} \bullet \frac{2x}{x+4}$

	Choice	Feedback
Α.	$\frac{3x}{x-1}$	
В.	$\frac{2x^2}{x^2-9x-20}$	
C.	$\frac{2x^2}{x^2 - 1}$	
*D.	$\frac{2x^2}{x^2 - x - 20}$	Correct!

Global Incorrect Feed	dback
	2x ²
The correct answer is:	$x^2 - x - 20$.

Question 8b of 9 (1 multiplying rational expressions 289533)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

 $\frac{3x}{x+1} \cdot \frac{x}{x-7}$

	Choice	Feedback
Α.	$\frac{4x}{2x-6}$	
*B.	$\frac{3x^2}{x^2 - 6x - 7}$	Correct!
C.	$\frac{3x^2}{x^2-6}$	
D.	$\frac{3x^2}{x^2+x-6}$	

Global Incorrect Fee	dback
	3x ²
The correct answer is:	$x^2 - 6x - 7$

Question 8c of 9 (1 multiplying rational expressions 289538)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which of the following is the product of the rational expressions shown below?

7x x x-4 x+7

	Choice	Feedback
Α.	$\frac{x^2}{x^2+3x-2}$	



Question 9a of 9 (1 multiplying and dividing rational expressions 135080)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	simplify, reduce
Question:	When you multiply or divide two rational expressions, keep in mind that you may be able to the result.

Attemp	ot Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: simplify.	

Question 9b of 9 (1 multiplying and dividing rational expressions 289539)

Question Type:Text Fill In BlankMaximum Score:2Is Case Sensitive:false	
Maximum Score: 2 Is Case Sensitive: false	
Is Case Sensitive: false	
Correct Answer: reduced	
Question: When you multiply or divide two rational expressions, the result mot always be in form.	nay

Attemp	t Incorrect Feedback
1st	
	Correct Feedback

Correct!
Global Incorrect Feedback
The correct answer is: reduced.

Question 9c of 9 (1 multiplying and dividing rational expressions 289540)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	simplify, reduce
Question:	After multiplying or dividing two rational expressions, it is sometimes possible to the resulting expression.

Attemp	Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: simplify.	

	PREVIEW	CLOSE	
Quiz: Adding and Subtracting Rational Expressions			

Question 1a of 11 (3 adding fractions 91410)

1
Text Fill In Blank
2
false
13/15
Calculate the sum of the fractions below. Enter your answer as a fraction, using a slash (/) as the fraction bar.



Attempt		Incorrect Feedback
1st		
Correct Feedback		
C		prrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 13/15.

Question 1b of 11 (3 adding fractions 289702)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	17/12
Question:	Calculate the sum of the fractions below. Enter your answer as a fraction, using a slash (/) as the fraction bar.



Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		

Question 1c of 11 (3 adding fractions 289703)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	17/35
Question:	Calculate the sum of the fractions below. Enter your answer as a fraction, using a slash (/) as the fraction bar.



Attemp	ot Ir	Incorrect Feedback	
1st			
	Correct Feedback		
Correct!		ect!	
	Global Incorrect Feedback		
	The correct answer is: 17/35.		

Question 2a of 11 (3 subtracting fractions 91411)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3/20
Question:	Calculate the difference of the fractions below. Enter your answer as a fraction, using a slash (/) as the fraction bar.



Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		

Question 2b of 11 (3 subtracting fractions 289704)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	19/10
Question:	Calculate the difference of the fractions below. Enter your answer as a fraction, using a slash (/) as the fraction bar.

5 2

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
Co		orrect!	
	Global Incorrect Feedback		
The correct answer is: 19/10.		ne correct answer is: 19/10.	

Question 2c of 11 (3 subtracting fractions 289705)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	17/28
Question:	Calculate the difference of the fractions below. Enter your answer as a fraction, using a slash (/) as the fraction bar.



Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		orrect!
	Global Incorrect Feedback	

Question 3a of 11 (3 adding rational expressions 91412)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the fractions below?

$$\frac{2}{3x} + \frac{5}{3x}$$

	Choice	Feedback
Α.	$\frac{7}{6x^2}$	
В.	$\frac{10}{9x^2}$	
*C.	7 3x	Correct!
D.	7 6x	
		at Foodbook

Global Incorrect Feedback The correct answer is: $\frac{7}{3x}$.

Question 3b of 11 (3 adding rational expressions 289706)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the fractions below?

$$\frac{1}{2x} + \frac{\epsilon}{2x}$$

	Choice	Feedback
Α.	$\frac{6}{4x^2}$	
В.	$\frac{7}{4\times}$	

C.	$\frac{7}{4x^2}$			
*D.	7 2x		Correct!	
		Global Incorrec	ct Feedback	
		The correct answ	ver is: 7×.	

Question 3c of 11 (3 adding rational expressions 289707)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the fractions below?

 $\frac{3}{5x}$ + $\frac{3}{5x}$

	Choice	Feedback
*A.	12 5×	Correct!
В.	$\frac{12}{2 \epsilon x^2}$	
C.	$\frac{27}{2 x^2}$	
D.	12 10x	

Global Incorrect Fee	dback
The correct answer is:	<u>12</u> 5x

Question 4a of 11 (3 subtracting rational expressions 91413)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the difference of the fractions below?
	7 <u>x</u> x 5_5

Choice	Feedback
--------	----------



The correct answer is: 5.

Question 4b of 11 (3 subtracting rational expressions 289708)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the difference of the fractions below?

 $\frac{6\times}{7}$ $\frac{2\times}{7}$

	Choice	Feedback
Α.	4×	
*В.	4 <u>×</u> 7	Correct!
C.	47	
D.	4	

Global Incorrect Feedback	
<u>4×</u>	
The correct answer is:	7

Question 4c of 11 (3 subtracting rational expressions 289709)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the difference of the fractions below?


	Choice		Feedback
Α.	8x		
*В.	<u>-×0</u> ਤ		Correct!
C.	8		
D.	8 3×		
	Global Incorrect Feedback		ct Feedback

Global Incorrect Feedback
87
The correct answer is: \exists .

Question 5a of 11 (3 adding rational expressions 91414)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the rational expressions below?

$$\frac{2x+3}{3x} + \frac{x}{x+1}$$

	Choice	Feedback
Α.	$\frac{2x^2 + 3x}{3x^2 + 3x}$	
*B.	$\frac{5x^2 + 5x + 3}{3x^2 + 3x}$	Correct!
C.	$\frac{3x^2+2x+4}{4x+1}$	
D.	$\frac{3x+3}{4x+1}$	

Global Incorrect Feedback		
The correct answer is:	$\frac{5x^2 + 5x + 3}{3x^2 + 3x}$	

$\label{eq:constraint} \textbf{Question 5b of 11} \ (\ \texttt{3} \ \texttt{adding rational expressions 289710} \)$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the rational expressions below?

 $\frac{3x-1}{2x} + \frac{3x}{x-1}$

	Choice	Feedback
Α.	<u>6x 1</u> 3x - 1	
В.	$\frac{3x-1}{2x^4-2x}$	
C.	$\frac{3x}{2x^2-2x}$	
*D.	$\frac{9x^2-4x+1}{2x^2-2x}$	Correct!

Global Incorrect Feedback	
	<u>9x² - 4x + 1</u>
The correct answer is:	2x ² -2x

Question 5c of 11 (3 adding rational expressions 289711)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the rational expressions below?

 $\frac{x-4}{2x}+\frac{3x}{2x-1}$

	Choice	Feedback
*A.	$\frac{8x^2 - 9x + 4}{4x^2 - 2x}$	Correct!
В.	$\frac{4x-4}{4x^2-2x}$	
C.	$\frac{4x-4}{4x-1}$	
D.	$\frac{\frac{3x^2-12x}{4x-1}}{4x-1}$	

Global Incorrect Feedback

Question 6a of 11 (3 subtracting rational expressions 91415)

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:What is the difference of the rational expressions below?

$$\frac{6x-1}{2x^2} - \frac{3}{x}$$

1

	Choice	Feedback
Α.	$\frac{6x^2 - 3x - 1}{2x^2 - x}$	
В.	$\frac{6x-4}{2x}$	
C.	$\frac{6x-7}{2x^2}$	
*D.	$-\frac{1}{2x^2}$	Correct!

Global Incorrect Feedback	
- The correct answer is:	$\frac{1}{2x^2}$.

Question 6b of 11 (3 subtracting rational expressions 289712)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the difference of the rational expressions below?

$$\frac{4}{x^3} - \frac{2x-1}{3x}$$

	Choice	Feedback
*A.	2x ² + x ² + 12 3x ²	Correct!
В.	$\frac{-2x^3+x^2+4}{x^3}$	

c.	$\frac{-2x+3}{x^3-3x}$		
D.	$\frac{-2x+5}{3x^3}$		

Global Incorrect Fee	dback
	-2x ² + x ² + 12 0.3
The correct answer is:	<u></u>

Question 6c of 11 (3 subtracting rational expressions 289713)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the difference of the rational expressions below?

 $\frac{x+5}{x^2} - \frac{2}{5x}$

	Choice	Feedback
Α.	$\frac{x+3}{5x^2}$	
В.	<u>-4x+5</u> x ² -7	
*C.	$\frac{3x+25}{5x^2}$	Correct!
D.	$\frac{\mathbf{x}-\mathbf{\dot{y}}}{\mathbf{x}^2-5\mathbf{x}}$	

Global Incorrect Feedback	
The correct answer is: $5x^2$	

Question 7a of 11 (3 adding rational expressions 91416)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the rational expressions below?
	2x x

$$\frac{2x}{x+2} + \frac{x}{x-3}$$

Choice

Feedback

Α.	$\frac{3x}{2x-1}$	
В.	$\frac{2x}{2x-2}$	
*C.	$\frac{3x^2 - 4x}{x^2 - x - 6}$	Correct!
D.	$\frac{3x^2 + 8x}{x^2 + x - 6}$	

Global Incorrect Feedback	
The correct answer is:	$\frac{3x^2 - 4x}{x^2 - x - 6}$

Question 7b of 11 (3 adding rational expressions 289714)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the sum of the rational expressions below?

 $\frac{x}{x-1} + \frac{3x}{x+2}$

	Choice	Feedback
Α.	$\frac{4x}{2x+1}$	
*B.	$\frac{4x^2-x}{x^2+x-2}$	Correct!
C.	$\frac{4x}{x+1}$	
D.	$\frac{4x^2-2}{x^2+x-2}$	

Global Incorrect Fee	dback
The correct answer is:	$\frac{4x^2-x}{x^2+x-2}$

Question 7c of 11 (3 adding rational expressions 289715)

Maximum Attempts:1Question Type:MMaximum Score:2

Multiple Choice

Question:

What is the sum of the rational expressions below?

 $\frac{3x}{x+2} + \frac{x}{x+4}$

	Choice	Feedback
*A.	$\frac{4x^2 + 14x}{x^2 + 6x + 6}$	Correct!
В.	$\frac{4x^2+4x+9}{x^2+6x+9}$	
C.	$\frac{4x}{2x+6}$	
D.	$\frac{3x^2}{x^2+8}$	

Global Incorrect Feedback	
The correct answer is: $\frac{4x^2 + 14x}{x^2 + 6x + 8}$.	

Question 8a of 11 (3 subtracting rational expressions 91417)

1
Multiple Choice
2
What is the difference of the rational expressions below?

$$\frac{3x}{x+1} - \frac{5}{x}$$

	Choice	Feedback
Α.	$\frac{3x-6}{x+1}$	
В.	$\frac{15}{x+1}$	
C.	$\frac{-2x-5}{x(x+1)}$	
*D.	$\frac{3x^2 - 5x - 5}{x^2 + x}$	Correct!

Global Incorrect Feedback	
	$3x^2 - 5x - 5$
The correct answer is:	$x^2 + x$

Question 8b of 11 (3 subtracting rational expressions 289716)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:What is the difference of the rational expressions below?

 $\frac{2z}{x+3} - \frac{4}{x}$

	Choice	Feedback
Α.	$\frac{2x-4}{x^2+3x}$	
В.	$\frac{2x-4}{2x+3}$	
*C.	$\frac{2x^2 - 4x - 12}{x^2 + 3x}$	Correct!
D.	$\frac{8x}{2x+3}$	

Global Incorrect Feedback	
	2x ² - 4x - 12
The correct answer is:	x ² +3x

Question 8c of 11 (3 subtracting rational expressions 289717)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the difference of the rational expressions below?

 $\frac{x}{x-2}-\frac{3}{x}$

	Choice	Feedback
Α.	$\frac{x^2 - 3x - 6}{x^2 - 2x}$	
В.	$\frac{x-3}{x^2-2x}$	
*C.	$\frac{x^2-3x+6}{x^2-2x}$	Correct!
D.	$\frac{x-3}{-2}$	

Question 9a of 11 (1 adding rational expressions 135085)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	numerators, numeraters
Question:	To add two rational expressions that have the <i>same</i> denominator, you simply add the

Attemp	t Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: numerators.	

Question 9b of 11 (1 adding rational expressions 289718)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	numerators, numeraters
Question:	To add two rational expressions with equal denominators, you add their

Attemp	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: numerators.

Question 9c of 11 (1 adding rational expressions 289719)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	denominators, denominaters
Question:	To add two rational expressions by simply adding their numerators, you must first make sure that the of the expressions are equal.

Attempt		Incorrect Feedback		
1st				
Correct Feedback				
	G	lobal Incorrect Feedback		
	The correct answer is: denominators.			

Question 10a of 11 (1 subtracting rational expressions 135086)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	numerators, numeraters
Question:	To subtract two rational expressions that have a common denominator, you simply subtract the

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	С	prrect!
	G	lobal Incorrect Feedback
	The correct answer is: numerators.	

Question 10b of 11 (1 subtracting rational expressions 289720)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false

Correct Answer: Question:

denominators, denominaters

In order to subtract two rational expressions by simply subtracting their numerators, you must make sure that their _____ are equal.

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	С	prrect!
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: denominators.

Question 10c of 11 (1 subtracting rational expressions 289721)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	subtract
Question:	To subtract two rational expressions that have a common denominator, you simply the numerators.

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
Correct!		orrect!	
	Global Incorrect Feedback		
	The correct answer is: subtract.		

Question 11a of 11 (1 adding and subtracting rational expressions 135087)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	After you add or subtract two rational expressions, it's a good idea to see if you can your answer.

	Choice	Feedback
Α.	divide	
В.	subtract	
*C.	reduce	Correct!

D. infer

Global Incorrect Feedback

The correct answer is: reduce.

Question 11b of 11 (1 adding and subtracting rational expressions 289722)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	After you add or subtract two rational expressions, the next step is to put your answer in form.

	Choice	Feedback
Α.	reciprocal	
*B.	reduced	Correct!
C.	divided	
D.	variable	

Global Incorrect Feedback

The correct answer is: reduced.

Question 11c of 11 (1 adding and subtracting rational expressions 289723)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	After adding or subtracting two rational expressions, you should put the result in form by reducing it.

	Choice	Feedback
Α.	factored	
В.	reciprocal	
C.	divided	
*D.	simplest	Correct!

Global Incorrect Feedback

The correct answer is: simplest.

	PREVIEW	CLOSE
Quiz: Inverse Variation		

Question 1a of 9 (2 recognizing a graph of inverse variation 91673)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The figure below is the graph of the dimensions of a rectangle whose adjacent side lengths exhibit <i>inverse</i> variation.
	50 1



	Choice	Feedback
*A.	True	Correct!
В.	False	

The correct answer is: True.

Question 1b of 9 (2 recognizing a graph of inverse variation 289787)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The figure below is the graph of the dimensions of a rectangle whose adjacent side lengths exhibit <i>direct</i> variation.



Question 1c of 9 (2 recognizing a graph of inverse variation 289788)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The figure b

The figure below is the graph of the dimensions of a rectangle whose adjacent side lengths exhibit *no* variation.



	Choice	Feedback
Α.	True	

*B. False	Correct!	
	Global Incorrect Feedback	
	The correct answer is: False.	

Question 2a of 9 (2 recognizing a graph of inverse variation 91674) Maximum Attempts: 1

Maximum Attempts:	
Question Type:	True-False
Maximum Score:	2
Question:	The figure below is the graph of the dimensions of a rectangle whose adjacent side lengths exhibit <i>inverse</i> variation.
	*



	Choice		Feedback	
*A.	True		Correct!	
В.	False			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: True.	

Question 2b of 9 (2 recognizing a graph of inverse variation 289789) Maximum Attempts: 1

Maximum Attempts:	I
Question Type:	True-False
Maximum Score:	2
Question:	The figure below is the graph of the dimensions of a rectangle whose adjacent side lengths exhibit <i>inverse</i> variation.



	Choice	Feedback
* A .	True	Correct!
В.	False	
	Glo	oal Incorrect Feedback

The correct answer is: True.

Question 2c of 9 (2 recognizing a graph of inverse variation 289790)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The figure

The figure below is the graph of the dimensions of a rectangle whose adjacent side lengths exhibit *direct* variation.



Choice	Feedback

Α.	True			
*B.	False		Correct!	
		Global Incorre	at Feedback	

The correct answer is: False.

Question 3a of 9 (3 finding a constant of direct variation using a graph 91675)

1
Numeric Fill In Blank
2
1.5
Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 3b of 9 (3 finding a constant of direct variation using a graph 289791)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.5

tion: Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 3c of 9 (3 finding a constant of direct variation using a graph 289792)

1
Numeric Fill In Blank
2
0.5
Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.

Question:



Question 4a of 9 (3 finding a constant of direct variation using a graph 91676)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3.2
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 4b of 9 (3 finding a constant of direct variation using a graph 289793)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 4c of 9 (3 finding a constant of direct variation using a graph 289794)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 5a of 9 (3 finding a constant of inverse variation using a graph 91677)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	100
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 5b of 9 (3 finding a constant of inverse variation using a graph 289795)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	50
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 5c of 9 (3 finding a constant of inverse variation using a graph 289796)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	20
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 6a of 9 (3 finding a constant of inverse variation using a graph 91678)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	60
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 6b of 9 (3 finding a constant of inverse variation using a graph 289797)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	80
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 6c of 9 (3 finding a constant of inverse variation using a graph 289798)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	75
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 7a of 9 (3 finding a constant of inverse variation using a graph 91679)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.5
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 7b of 9 (3 finding a constant of inverse variation using a graph 289799)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.8
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 7c of 9 (3 finding a constant of inverse variation using a graph 289801)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.4
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to one decimal place.



Question 8a of 9 (3 finding a constant of inverse variation using a graph 91680)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	24
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Attemp	Attempt Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
The correct answer is: 24.		

Question 8b of 9 (3 finding a constant of inverse variation using a graph 289802)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	36
Question:	Using the graph, find the value of the constant in the equation below. If necessary, round your answer to the nearest integer.



Question 8c of 9 (3 finding a constant of inverse variation using a graph 289803)Maximum Attempts:1

Question Type:Numeric Fill In BlankMaximum Score:2Correct Answer:12Question:Using the graph, find the value of the constant in the equation below. If
necessary, round your answer to the nearest integer.



Question 9a of 9 (1 finding a constant of inverse or direct variation 135097)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	After you have determined if two quantities are in direct or inverse variation, you can find the of the equation by solving for it.

Choice	Feedback
variable	
degree	
constant	Correct!
value	
	Choice variable degree constant value

Global Incorrect Feedback

The correct answer is: constant.

Question 9b of 9 (1 finding a constant of inverse or direct variation 289804)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:After you have determined if two quantities are in direct or inverse variation, the equation's _____ can be solved for.

	Choice	Feedback
* A .	constant	Correct!
В.	degree	
C.	root	
D.	value	

Global Incorrect Feedback

The correct answer is: constant.

Question 9c of 9 (1 finding a constant of inverse or direct variation 289805)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	After determining if two quantities are in inverse or direct, you can find the equation's constant by solving for it.

	Choice	Feedback
Α.	fraction	
В.	value	
C.	root	
*D.	variation	Correct!

Global Incorrect Feedback
The correct answer is: variation.

	PREVIEW	CLOSE
Quiz: Rational Functions		

Question 1a of 14 (1 recognizing rational functions 91961)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	A rational function is a function whose equation contains a rational expression.

	Choice	Feedback
* A .	True	Correct!
В.	False	
	Global Incorr	ect Feedback

The correct answer is: True.

Question 1b of 14 (1 recognizing rational functions 289815)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	If the equation of a function is a rational expression, the function is rational.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 1c of 14 (1 recognizing rational functions 289816)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The equation of a rational function does <i>not</i> have to contain a rational expression.

	Choice	Feedback
Α.	True	

*B. False	Correct!	
	Global Incorrect Feedback	
	The correct answer is: False.	

Question 2a of 14 (2 recognizing rational functions 91962)

Choice			Feedback
	The function	З _{is ar}	example of a rational function.
Question:	F(x)	<u>= 2×</u>	
Maximum Score:	2		
Question Type:	True-False		
Maximum Attempts:	1		

*A.	True	Correct!
В.	False	
	Global Incorre	ct Feedback

The correct answer is: True.

Question 2b of 14 (2 recognizing rational functions 289817)

Maximum Attempts:	1	
Question Type:	True-False	
Maximum Score:	2	
Question:		R.

The function $f(x) = \frac{1}{x}$ is *not* an example of a rational function.

	Choice		Feedback	
Α.	True			
*B.	False		Correct!	
		Global Incorrec	ct Feedback	
		The correct answ	ver is: False.	

Question 2c of 14 (2 recognizing rational functions 289818)

Maximum Attempts:	1	
Question Type:	True-False	
Maximum Score:	2	
Question:	F(x) =	<u>6x-2</u>
	The function	⁵ is an example of a rational function.

	Choice	Feedback
* A .	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 3a of 14 (2 rational functions used to study inverse variation 91963)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can use rational functions to study the relationships of inverse variation.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 3b of 14 (2 rational functions used to study inverse variation 289819)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can use rational functions to study the relationships of inverse variation.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 3c of 14 (2 rational functions used to study inverse variation 289820)

Maximum Attempts:1Question Type:True-FalseMaximum Score:2
Question:		You can use rational functions to study the relationships of inverse variation.		
	Choice		Feedback	
			• · · ·	

*A.	True		Correct!	
В.	False			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: True.	

Question 4a of 14 (2 understanding inverse variation 91964)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	If you double the input of a function and it results in half the output, and if you triple the input and it results in a third of the output, what can be guessed about the function? <i>Check all that apply.</i>

Correct Answers:

	Choice
Α.	The function is most likely directly proportional.
*B.	The function is most likely inversely proportional.
C.	More input results in more output.
*D.	More input results in less output.

Attempt	Incorrect Feedback
1st	

Correct Feedback	
Correct!	
Global Incorrect Feedback	
 The correct answers are: The function is most likely inversely proportional. More input results in less output. 	

Question 4b of 14 (2 understanding inverse variation 289821)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	If you quadruple the input of a function and the resulting output is one- fourth the original output, what may be true of the function? <i>Check all</i> <i>that apply.</i>

Correct Answers:

	Choice
Α.	The function is directly proportional.
*B.	The function is inversely proportional.
*C.	More input results in less output.
D.	More input results in more output.

Attempt		Incorrect Feedback		
1st				
	С	orrect Feedback		
Correct!		prrect!		
Global Incorrect Feedback				
	G	obal Incorrect Feedback		
	G Tř	be correct answers are:		

1

Question 4c of 14 (2 understanding inverse variation 289822)

Maximum Attempts:

Question Type:	Multiple Response
Maximum Score:	2
Question:	If you double the input of a function and it results in four times the output, and if you triple the input and it results in six times the output, what can be guessed about the function? <i>Check all that apply.</i>

Correct Answers:

Choice

*A.	The function is most likely directly proportional.
В.	The function is most likely inversely proportional.
*C.	More input results in more output.
D.	More input results in less output.
	N

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
G		lobal Incorrect Feedback

The correct answers are:

- The function is most likely directly proportional.
- More input results in more output.

Question 5a of 14 (1 recognizing rational functions 91965)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	A rational function is

	Choice	Feedback
Α.	a function whose inequality contains a rational expression.	
В.	an equation whose function contains a rational expression.	
*C.	a function whose equation contains a rational expression.	Correct!
D.	a fraction whose equation contains a rational expression.	
E.	a function whose equation contains a fractional expression.	

Global Incorrect Feedback

The correct answer is: a function whose equation contains a rational expression.

Question 5b of 14 (1 recognizing rational functions 289823)

1

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:A rational function is a function whose equation contains _____.

	Choice	Feedback	
Α.	ت x		
*B.	a rational expression.	Correct!	
C.	a quadratic polynomial.		
D.	a fractional expression.		
Ε.	a rational number.		

Global Incorrect Feedback

The correct answer is: a rational expression.

Question 5c of 14 (1 recognizing rational functions 289824)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	A function whose equation contains a rational expression is known as

	Choice	Feedback
Α.	a polynomial function.	
В.	a relational function.	
C.	a fractional function.	
D.	an expressional function.	
*E.	a rational function.	Correct!

Global Incorrect Feedback

The correct answer is: a rational function.

Question 6a of 14 (2 putting an inverse variation in function notation 91966)

Maximum Attempts:1Question Type:Text Fill In BlankMaximum Score:2

Is Case Sensitive:
Correct Answer:
Question:

Scott is painting the wall of a large building and has enough paint to cover 100 square meters of wall space. If Scott first decides on the width of the rectangle he's going to paint, the equation below will tell him what the height of the rectangle can be.

Height =
$$\frac{100}{\text{VVidth}}$$

H(w) = 100/w

false

If *w* stands for width, the input value, and H(w) stands for height, the output value, rewrite the equation above using function notation. Use the slash (/) to indicate a fraction.

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		prrect!
	Global Incorrect Feedback	
	Tł	the correct answer is: $H(w) = 100/w$.

Question 6b of 14 (2 putting an inverse variation in function notation 289825)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	W(h)=60/h
Question:	Richard is painting the wall of a large building and has enough paint to cover 60 square meters of wall space. If Richard first decides on the height of the rectangle he's going to paint, the equation below will tell him what the width of the rectangle can be.

Weth - ⁶⁰ Height

If *h* stands for height, the input value, and W(h) stands for height, the output value, rewrite the equation above using function notation. Use the slash (/) to indicate a fraction.

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		

Question 6c of 14 (2 putting an inverse variation in function notation 289826)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	H(w)=30/w
Question:	Franz is painting the wall of a large building and has enough paint to cover 30 square meters of wall space. If Franz first decides on the width of the rectangle he's going to paint, the equation below will tell him what the height of the rectangle can be.



If *w* stands for width, the input value, and H(w) stands for height, the output value, rewrite the equation above using function notation. Use the slash (/) to indicate a fraction.

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		orrect!
	Global Incorrect Feedback	
	Tł	the correct answer is: $H(w) = 30/w$.

Question 7a of 14 (2 determining the range of an inverse variation function 91967)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What restrictions are there on the range of the function $H(w)$ below?



	Choice	Feedback
*A.	H(w) > 0	Correct!
В.	H(w) < 0	
C.	H(w) = 1	
D.	H(w) = 1	

Global Incorrect Feedback The correct answer is: H(w) > 0.

Question 7b of 14 (2 determining the range of an inverse variation function 289827)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What restrictions are there on the range of the function $H(w)$ below?



	Choice	Feedback
Α.	H(w) = 1	
В.	H(w) < 0	

*C.	H(w) > 0		Correct!	
D.	<i>H</i> (w) 1			
		Global Incorre	ct Feedback	

The correct answer is: H(w) > 0.

Question 7c of 14 (2 determining the range of an inverse variation function 289828)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What restrictions are there on the range of the function $H(w)$ below?



	Choice	Feedback
Α.	There are no restrictions on the range of $H(w)$.	
В.	H(w) < 0	
*C.	H(w) > 0	Correct!
D.	H(w) = 1	

Global Incorrect Feedback		
The correct answer is: $H(w) > 0$.		

Ouestion~8a~of~14 (2 determining the horizontal asymptote of an inverse variation function 91968)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, what happens when w gets

very large?



	Choice	Feedback
Α.	H(w) gets very large.	
В.	H(w) moves right.	
*C.	H(w) gets very small.	Correct!
D.	H(w) moves left.	

Global Incorrect Feedback

The correct answer is: H(w) gets very small.

$Ouestion \ 8b \ of \ 14$ (2 determining the horizontal asymptote of an inverse variation function 289829)

-	
Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, what happens when w gets very large?



	Choice	Feedback
*A.	H(w) gets very small.	Correct!

В.	H(w) approaches a vertical asymptote.	
C.	H(w) equals zero.	
D.	H(w) moves left.	
	Global Incorrect Feedback	

 $Question \ 8c \ of \ 14$ (2 determining the horizontal asymptote of an inverse variation function 289830)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, what happens when w gets very large?



The correct answer is: H(w) gets very small.

	Choice	Feedback
Α.	H(w) remains constant.	
В.	H(w) becomes undefined.	
C.	H(w) gets very large.	
*D.	<i>H</i> (<i>w</i>) gets very small.	Correct!
	Clabel Income	

Global Incorrect Feedback

The correct answer is: H(w) gets very small.

Question 9a of 14 (2 determining the vertical asymptote of an inverse variation function 91969)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, what happens when w gets close

to zero?



	Choice	Feedback
*A.	H(w) gets very large.	Correct!
В.	H(w) moves right.	
C.	H(w) gets very small.	
D.	H(w) moves left.	

Global Incorrect Feedback

The correct answer is: H(w) gets very large.

Question 9b of 14 (2 determining the vertical asymptote of an inverse variation function 289831)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, what happens when w gets close to zero?



	Choice	Feedback
Α.	H(w) approaches a horizontal asymptote.	

В.	H(w) equals zero.	
C.	H(w) gets very small.	
*D.	<i>H</i> (<i>w</i>) gets very large.	Correct!
	Global Incorre	ect Feedback

The correct answer is: H(w) gets very large.

 $Ouestion \ 9c \ of \ 14$ (2 determining the vertical asymptote of an inverse variation function 289832)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, what happens when w gets close to zero?



	Choice	Feedback
Α.	H(w) becomes undefined.	
*B.	H(w) gets very large.	Correct!
C.	H(w) gets very small.	
D.	H(w) becomes constant.	

Global Incorrect Feedback

The correct answer is: H(w) gets very large.

$Ouestion \ 10a \ of \ 14$ (2 determining the horizontal asymptote of an inverse variation function 91970)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, the <i>w</i> -axis is also the

for *H*(*w*).



	Choice	Feedback
A . v	vertical asymptote	
B. n	negative output	
C . p	postive output	
* D. h	horizontal asymptote	Correct!

Global Incorrect Feedback

The correct answer is: horizontal asymptote.

$Ouestion \ 10b \ of \ 14$ (2 determining the horizontal asymptote of an inverse variation function 289833)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, the <i>w</i> -axis is also the for $H(w)$.



	Choice	Feedback
Α.	rational expression	

*B.	horizontal asymptote		Correct!	
C.	postive output			
D.	vertical asymptote			
		Global Incorrec	ct Feedback	

The correct answer is: horizontal asymptote.

Question 10c of 14 (2 determining the horizontal asymptote of an inverse variation function 289834)

,	
Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, the <i>w</i> -axis is also the for $H(w)$.



	Choice	Feedback
Α.	vertical asymptote	
В.	fractional output	
*C.	horizontal asymptote	Correct!
D.	undefined area	

Global Incorrect Feedback

The correct answer is: horizontal asymptote.

$Ouestion \ 11a \ of \ 14$ (2 determining the vertical asymptote of an inverse variation function 91971)

1
Multiple Choice
2
According to the graph of $H(w)$ below, the line $w = 0$ is also the

for *H*(*w*)?



	Choice	Feedback
*A.	vertical asymptote	Correct!
В.	horizontal asymptote	
C.	neutral asymptote	
D.	negative asymptote	
Ε.	positive asymptote	

The correct answer is: vertical asymptote.

 $Ouestion \ 11b \ of \ 14$ (2 determining the vertical asymptote of an inverse variation function 289835)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, the line $w = 0$ is also the for $H(w)$?



Choice Feedback

Α.	rational expression		
В.	horizontal asymptote		
*C.	vertical asymptote	Correct!	
D.	negative asymptote		
Ε.	positive asymptote		

The correct answer is: vertical asymptote.

$Ouestion \ 11c \ of \ 14$ (2 determining the vertical asymptote of an inverse variation function 289836)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	According to the graph of $H(w)$ below, the line $w = 0$ is also the for $H(w)$?



	Choice	Feedback
Α.	rational expression	
В.	horizontal asymptote	
C.	undefined asymptote	
D.	negative asymptote	
*E.	vertical asymptote	Correct!

Global Incorrect Feedback

The correct answer is: vertical asymptote.

Question 12a of 14 (1 definition of an asymptote 91972)

Maximum Attempts: 1

Question Type:	Multiple Choice
Maximum Score:	2
Question:	A line is a(n) for a function if the graph of the function gets closer and closer to touching the line but never reaches it

	Choice	Feedback
Α.	diagonal	
В.	array	
*C.	asymptote	Correct!
D.	diagram	
Ε.	estimation	

The correct answer is: asymptote.

Question 12b of 14 (1 definition of an asymptote 289837)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	An asymptote is a line that the graph of a function

	Choice	Feedback
Α.	defines	
В.	approaches and crosses	
C.	equals	
*D.	approaches but does not cross	Correct!
Ε.	divides	

Global Incorrect Feedback

The correct answer is: approaches but does not cross.

Question 12c of 14 (1 definition of an asymptote 289838)

Choice	Feedback
Question:	A line that a function gets closer and closer to but does not reach is called a(n)
Maximum Score:	2
Question Type:	Multiple Choice
Maximum Attempts:	1

Α.	diagonal	
*B.	asymptote	Correct!
C.	expression	
D.	graph	
Ε.	constant	

The correct answer is: asymptote.

Question 13a of 14 (2 the relationship of the input to a function of inverse variation to its output 91973)

Maximum Attempts:1Question Type:Multiple Choice

2

Maximum Score:

Question:

In the inverse variation function, what happens to the output when the function's input is doubled?

	Choice	Feedback
Α.	The output is negated.	
*B.	The output is halved.	Correct!
C.	The output is doubled.	
D.	The output is reversed.	

Global Incorrect Feedback The correct answer is: The output is halved.

Question 13b of 14 (2 the relationship of the input to a function of inverse variation to its output 289839)

Maximum Attempts:

Question Type:Multiple Choice

1

Maximum Score: 2

Question:

In the inverse variation function, what happens to the output when the function's input is multiplied by 3?

	Choice	Feedback
Α.	The output is zero.	
В.	The output is halved.	
C.	The output is doubled.	
*D.	The output is divided by 3.	Correct!

The correct answer is: The output is divided by 3.

Question 13c of 14 (2 the relationship of the input to a function of inverse variation to its output 289840)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	In the inverse variation function, what happens to the output when the function's input is halved?

	Choice	Feedback
Α.	The output is tripled.	
В.	The output is halved.	
*C.	The output is doubled.	Correct!
D.	The output is negated.	

Global Incorrect Feedback

The correct answer is: The output is doubled.

Question 14a of 14 (2 the relationship of the input to a function of inverse variation to its output 91974)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	In the inverse variation function, what happens to the output when the function's input value is divided by 3?

	Choice	Feedback
Α.	The output is negated.	
В.	The output is divided by 3.	
*C.	The output is tripled.	Correct!
D.	The output is reversed.	

Global Incorrect Feedback

The correct answer is: The output is tripled.

 $Ouestion \ 14b \ of \ 14$ (2 the relationship of the input to a function of inverse variation to its output 289841)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:In the inverse w
function's input

In the inverse variation function, what happens to the output when the function's input value is divided by 5?

	Choice	Feedback
Α.	The output is squared.	
*B.	The output is multiplied by 5.	Correct!
C.	The output is divided by 5.	
D.	The output is zero.	

Global Incorrect Feedback The correct answer is: The output is multiplied by 5.

 $Ouestion \ 14c \ of \ 14$ (2 the relationship of the input to a function of inverse variation to its output 289842)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	In the inverse variation function, what happens to the output when the function's input value is multiplied by 4?

	Choice	Feedback	
Α.	The output is negated.		
В.	The output is divided by 2.		
C.	The output is multiplied by 4.		
*D.	The output is divided by 4.	Correct!	

Global Incorrect Feedback		
The correct answer 4.	is: The output is divided by	

	PREVIEW	CLOSE	
Quiz: More than One Vertical Asymptote			

How many vertical asymptotes does the graph of this function have?

Question 1a of 12 (2 counting vertical asymptotes 91988)

1

2

2

Maximum Attempts:

Numeric Fill In Blank

Maximum Score: Correct Answer:

Question Type:

Question:

 $F(x) = \frac{3}{x(x-4)}$

Attemp	ot Incorrect Feedback	
1st	st	
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 2.

Question 1b of 12 (2 counting vertical asymptotes 290120)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	How many vertical asymptotes does the graph of this function have?

84-	1
- 41	XX+II

Attemp	pt Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 2.

Question 1c of 12 (2 counting vertical asymptotes 290121)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1
Question:	How many vertical asymptotes does the graph of this function have?

 $F(x) = \frac{2}{3(x-T)}$

Linearroat Foodback	
1st	
Correct Feedback	
Correct!	
Global Incorrect Feedback	
The correct answer is: 1.	

Question 2a of 12 (2 counting vertical asymptotes 91989)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	How many vertical asymptotes does the graph of this function have?

$$F(x) = \frac{2}{(x-1)(x+3)(x+8)}$$

Attemp	ot	Incorrect Feedback	
1st	1st		
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 3.		

Question 2b of 12 (2 counting vertical asymptotes 290122)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2

3 Correct Answer: How many vertical asymptotes does the graph of this function have? Question:

		4µ= <u>ε΄</u> 3τητημ: τ
Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!

The correct answer is: 3.

Global Incorrect Feedback

Question 2c of 12 (2 counting vertical asymptotes 290123)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	How many vertical asymptotes does the graph of this function have?



Attemp	ot Incorrect Feedback	
1st		
	C	orrect Feedback
	Correct!	
	G	lobal Incorrect Feedback
	The correct answer is: 2.	

Question 3a of 12 (3 finding vertical asymptotes 91990)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? <i>Check all that apply.</i>

$$F(x) = \frac{1}{(x-4)(x+1)}$$

Correct Answers:

	Ch	0	ice	
*A.	4	4		
*B.	-1			
C.	-4			
D.	1			
Ε.	0			
F.	2	2		
Atte	mp	t	Incorrect Feedback	
1st				
		Correct Feedback		
		Correct!		
		Global Incorrect Feedback		
		The correct answers are: 4 and -1.		

Question 3b of 12 (3 finding vertical asymptotes 290124)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? Check all that apply.

Correct Answers:

	Cho	Choice		
* A .	-2			
В.	2			
C.	0	0		
D.	-7			
*E.	7	7		
F.	-14	-14		
Atte	mpt	Incorrect Feedback		
1st		<u> </u>		

Correct Feedback
Correct!
Global Incorrect Feedback

Question 3c of 12 (3 finding vertical asymptotes 290125)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? Check all that apply.



Correct Answers:

	Choice
Α.	9
В.	-1
*C.	1
D.	-9
Ε.	-8
*F.	8

Attemp	ot Incorrect Feedback	
1st		
	С	orrect Feedback
	Correct!	
	Global Incorrect Feedback	
	The correct answers are: 1 and 8.	

Question 4a of 12 (3 finding vertical asymptotes 91991)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? <i>Check all that apply.</i>

$$F(x) = \frac{2}{3x(x-1)(x+5)}$$

Correct Answers:

	Cho	bice			
* A .	0				
*B.	-5				
C.	3				
D.	2				
Ε.	-1				
*F.	1				
Atte	mpt	Incorrect Feedback			
1st					
	Correct Feedback				
	Correct!				
	Global Incorrect Feedback				
	The correct answers are: 0, -5, and 1.				

Question 4b of 12 (3 finding vertical asymptotes 290126)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? Check all that apply.

1(4= <u>?</u>)tr-3(5-5)

Correct Answers:

	Choice
Α.	7
*B.	-3
C.	3
*D.	0
Ε.	-9
*F.	9

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		prrect!
	Global Incorrect Feedback	
The correct answers are: -3, 0, and 9.		

Question 4c of 12 (3 finding vertical asymptotes 290127)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? Check all that apply.

F)) = 1 x(r-5)(r-1)

Correct Answers:

	Cho	oice	
Α.	1		
*B.	-1		
C.	3		
D.	-5		
*E.	5		
* F .	0		
Atte	mpt	Incorrect Feedback	
1st			
	C	Correct Feedback	٦
	Correct!		
	Global Incorrect Feedback		
	The correct answers are: -1, 5, and 0.		

 $Ouestion \ 5a \ of \ 12$ (3 determining the equation of a rational function from its graph 91992)

Maximum Attempts: 1

Multiple Choice

2

Question Type: Maximum Score: Question:

The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{x(x-2)}$	
В.	$F(x) = \frac{1}{(x+2)(x-3)}$	
*C.	$F(x) = \frac{1}{(x-2)(x+3)}$	Correct!
D.	$F(x) = \frac{(x-2)}{(x+3)}$	



Question 5b of 12 (3 determining the equation of a rational function from its graph 290129)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
*A.	$F(x) = \frac{1}{(x+2)(x-5)}$	Correct!
В.	$F(x) = \frac{1}{(x - \frac{1}{2}(x) + 5)}$	
C.	$F(x) = \frac{1}{(7x+5)}$	
D.	$ \begin{array}{rcl} (x & 2) \\ F(x) &= & (x+5) \end{array} $	

Global Incorrect FeedbackThe correct answer is: $F(x) = \frac{1}{[x+3](x-b]}$

 $Ouestion \ 5c \ of \ 12$ (3 determining the equation of a rational function from its graph 290130)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice		Feedback	
Α.	$F(x) = \frac{1}{(x+1)(x-4)}$			
В.	$\int_{F(x)}^{1} F(x) = \frac{x-4}{2}$			
C.	$F(x) = \frac{x \cdot 1}{x - 4}$			
*D.	$F(x) = \frac{1}{ x-1 x+4 }$		Correct!	
		Global Incorrec	ct Feedback	

The correct answer is: $F(x) = \frac{1}{[x-1](x+1]}$.

 $Ouestion\ 6a\ of\ 12$ (3 determining the equation of a rational function from its graph 91993)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
*A.	$F(x) = \frac{1}{(x-1)(x-2)}$	Correct!
В.	$F(x) = \frac{(x+2)}{(x-1)}$	
C.	$F(x) = \frac{1}{(x+1)(x+2)}$	
D.	$F(x) = \frac{1}{x(x+1)(x-2)}$	

Global Incorrect Feedback	
1	
The correct answer is: $F(x) = \overline{(x-1)(x-2)}$.	

 $Ouestion\ 6b\ of\ 12$ (3 determining the equation of a rational function from its graph 290131)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{(x-3)(x-5)}$	
В.	$\begin{array}{rcl} x-3\\ F(x) &= & x-5 \end{array}$	
*C.	$F(x) = \frac{1}{(x+x)(x+x)}$	Correct!
D.	$F(x) = \frac{3}{x-5}$	

Global Incorrect FeedbackThe correct answer is: $F(x) = \frac{1}{(x+3)(x+5)}$

 $Ouestion\ 6c\ of\ 12$ (3 determining the equation of a rational function from its graph 290132)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{x}{x + 3}$	
В.	$F(x) = \frac{1}{x(x+3)}$	
*C.	$F(x) = \frac{1}{x(x-x)}$	Correct!
D.	$F(x) = \mathbf{X}$	

Global Incorrect FeedbackThe correct answer is: $F(x) = \frac{1}{\sqrt[4]{x-3}}$

 $Ouestion \ 7a \ of \ 12$ (3 determining the equation of a rational function from its graph 91994)

1
Multiple Choice
2
The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{\frac{(x+3)}{(x-3)}}{(x-3)}$	
В.	$F(x) = \frac{1}{x(x-3)}$	
*C.	$F(x) = \frac{1}{(x-3)(x+3)}$	Correct!
D.	$F(x) = \frac{1}{x(x+3)(x-3)}$	

Global Incorrect Feedback		
	1	
The correct answer is: $F(x) = \overline{(x-3)^2}$)(x + 3)	

 $Ouestion\ 7b\ of\ 12$ (3 determining the equation of a rational function from its graph 290134)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Fee	eedback
*A.	$F(x) = \frac{1}{(x-1)(x+1)}$	Cor	prrect!
В.	$\begin{array}{rcl} x+1\\ F(x) &= & x-1 \end{array}$		
C.	$F(x) = \frac{1}{x(x-1)}$		
D.	$F(x) = \frac{x-1}{x+1}$		
<u></u>			

Global Incorrect FeedbackThe correct answer is: $F(x) = \frac{1}{(x-1)(x+1)}$

 $Ouestion \ 7c \ of \ 12$ (3 determining the equation of a rational function from its graph 290135)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice		Feedback	
Α.	$F(x) = \frac{x+5}{x-7}$			
В.	$\frac{3}{F(x) = x - 7}$			
C.	$F(x) = \frac{1}{(x+y)(x-y)}$			
*D.	$F(x) = \frac{1}{(x+3)(x-7)}$		Correct!	
		Global Incorrect Feedback		

The correct answer is: $F(x) = \frac{1}{[x+3](x-7]}$.

 $Ouestion\ 8a\ of\ 12$ (3 determining the equation of a rational function from its graph 91995)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?


	Choice	Feedback	
Α.	$F(x) = \frac{2x}{x(x-2)}$		
В.	$F(x) = \frac{(x+1)}{(x+2)(x+0)}$		
C.	$F(x) = \frac{1}{x(x-2)}$		
*D.	$F(x) = \frac{1}{x(x+2)}$	Correct!	
	G	obal Incorrect Feedback	

Global Incorrect Feedback	
1	
The correct answer is: $F(x) = \overline{x(x+2)}$.	

 $Question \ 8b \ of \ 12$ (3 determining the equation of a rational function from its graph 290136)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	F	Feedback
Α.	$F(x) = \frac{\mathbf{A}}{\mathbf{A}}$		
*B.	$F(x) = \frac{1}{\sqrt{x-4}}$	С	Correct!
C.	$F(x) = \frac{x}{x+4}$		
D.	$f(x) = \frac{1}{x^{4x-4}}$		

Global Incorrect Feedback The correct answer is: $F(x) = \frac{1}{x(x+1)}$.

 $Ouestion \ 8c \ of \ 12$ (3 determining the equation of a rational function from its graph 290138)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?





Global Incorrect FeedbackThe correct answer is: $F(x) = \frac{1}{(x-b)(x+b)}$.

Question 9a of 12 (2 understanding vertical asymptotes 91996)

Maximum Attempts: 1

Question:

Question Type: True-False

Maximum Score: 2

Some rational functions have more than one vertical asymptote.

	Choice	Feedback
* A .	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 9b of 12 (2 understanding vertical asymptotes 290140)

Maximum Attempts: 1 Question Type: True-False Maximum Score: 2 Question: All rational functions have more than one vertical asymptote.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback	
The correct answer is: False.	

Question 9c of 12 (2 understanding vertical asymptotes 290142)

Ouestion Type:	i True-False
Maximum Score:	2
Question:	All rational functions have at least one vertical asymptote.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback The correct answer is: False.

Question 10a of 12 (2 graphing rational functions 290001)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	To make a sketch of any rational function whose numerator is a number and whose denominator is a factored polynomial, use the following rule of thumb.

The function has a vertical asymptote at every *x*-value where its denominator is zero, and you can make a table for each vertical asymptote to find out what happens to the function there.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

Question 10b of 12 (2 graphing rational functions 290152)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	To make a sketch of any rational function whose numerator is a number and whose denominator is a factored polynomial, use the following rule of thumb.

The function has a vertical asymptote at every *x*-value where its numerator is zero, and you can make a table for each vertical asymptote to find out what happens to the function there.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback	
The correct answer is: False.	

Question 10c of 12 (2 graphing rational functions 290155)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	To make a sketch of any rational function whose numerator is a number and whose denominator is a factored polynomial, use the following rule of thumb.

The function has a vertical asymptote at every *x*-value where its denominator is zero, and the function is always negative between two asymptotes.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

Question 11a of 12 (2 counting vertical asymptotes 91998)

Maximum Attempts:

Question Type:

Numeric Fill In Blank

1

Maximum Score:	2
Correct Answer:	2
Question:	How many vertical asymptotes does the graph of this function have?

$$F(x) = \frac{1}{(x+1)(x+2)}$$

Attemp	npt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 2.	

Question 11b of 12 (2 counting vertical asymptotes 290158)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	How many vertical asymptotes does the graph of this function have?

		1
F(x)	=	(x+3)(x-3)

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
The correct answer is: 2.		

Question 11c of 12 (2 counting vertical asymptotes 290160)

1
Numeric Fill In Blank
2
1
How many vertical asymptotes does the graph of this function have?

	$F(x) = \frac{1}{5(x+9)}$	
Attempt Incorrect Feedback		
1st	1st	
	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 1.	

Question 12a of 12 (3 finding vertical asymptotes 91999)

Maximum Attempts:1Question Type:Multiple ResponseMaximum Score:2Question:At which values of x does the function F(x) have a vertical asymptote?
Check all that apply.

$$F(x) = \frac{1}{(x+1)(x+2)}$$

Correct Answers:

	Choice			
Α.	2	2		
*B.	-1			
*C.	-2			
D.	-6	1		
Ε.	0	0		
Atte	mp	ot	Incorrect Feedback	
1st				
		C	orrect Feedback	
	Correct!			
		G	lobal Incorrect Feedback	
	The correct answers are: -1 and -2.			

Question 12b of 12 (3 finding vertical asymptotes 290164)

Maximum Attempts: 1

Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? <i>Check all that apply.</i>

$$F(x) = \frac{1}{x^{(x+b)(x-1)}}$$

Correct Answers:

	Choice
*A.	0
В.	-1
*C.	1
*D.	-6
Ε.	6

Attemp	I Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
Global Incorrect Feedback		
	The correct answers are: 0, 1, and -6.	

Question 12c of 12 (3 finding vertical asymptotes 290167)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	At which values of x does the function $F(x)$ have a vertical asymptote? Check all that apply.

$$F(x) = \frac{1}{7(x+2)(x+3)}$$

Correct Answers:

	Choice
*A.	-3
В.	3
*C.	-2
D.	2

Ε.	7		
Atte	mpt	Incorrect Feedback	
1st	1st		
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answers are: -3 and -2.		

	PREVIEW	CLOSE
Quiz: Finding Vertical Asymptotes		

Question 1a of 13 (3 finding vertical asymptotes 91975)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

 $F(x) = \frac{1}{x-1}$

Attemp	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 1.	

Question 1b of 13 (3 finding vertical asymptotes 289944)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-3
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

 $f(x) = \frac{1}{x+3}$

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
Correct!		prrect!
	Global Incorrect Feedback	
	The correct answer is: -3.	

Question 1c of 13 (3 finding vertical asymptotes 289945)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

 $f(x) = \frac{2}{x-2}$

Attemp	ot	Incorrect Feedback	
1st	1st		
	С	orrect Feedback	
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 2.		

Question 2a of 13 (3 finding vertical asymptotes 91976)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-2
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

$$F(x) = \frac{1}{x+2}$$

Attemp	ot	t Incorrect Feedback	
1st			
	С	orrect Feedback	
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: -2.		

1

Question 2b of 13 (3 finding vertical asymptotes 289946)

Maximum Attempts:

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-6
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

$F(x) = \frac{1}{x+6}$

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: -6.		

Question 2c of 13 (3 finding vertical asymptotes 289947)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

 $f(x) = \frac{1}{x+1}$

Attemp	pt Incorrect Feedback	
1st	lst	
	С	orrect Feedback
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -1.	

Question 3a of 13 (3 finding vertical asymptotes 91977)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-4

Question:

At what value of x does the graph of the function F(x) have a vertical asymptote?

$$F(x) = \frac{1}{x+4}$$

Attemp	ot	ot Incorrect Feedback	
1st			
	С	orrect Feedback	
	С	Correct!	
	Global Incorrect Feedback		
	The correct answer is: -4.		

Question 3b of 13 (3 finding vertical asymptotes 289948)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	11
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

R(x)-3 x-11

Attemp	ot	t Incorrect Feedback	
1st	st		
	C	orrect Feedback	
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 11.		

Question 3c of 13 (3 finding vertical asymptotes 289949)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-8
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

$F(x) = \frac{1}{x+b}$			
Attempt Incorrect Feedback			
1st	1st		
Correct Feedback			
Correct!			
Global Incorrect Feedback			
Т	he correct answer is: -8.		

Question 4a of 13 (3 finding vertical asymptotes 91978)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	7
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

$$F(x) = \frac{1}{x-7}$$

Attemp	empt Incorrect Feedback		
1st			
	Correct Feedback		
Correct!			
	Global Incorrect Feedback		
	The correct answer is: 7.		

Question 4b of 13 (3 finding vertical asymptotes 289950)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-9
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

 $f(x) = \frac{1}{x+9}$

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: -9.

Question 4c of 13 (3 finding vertical asymptotes 289951)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	15
Question:	At what value of x does the graph of the function $F(x)$ have a vertical asymptote?

F(x) - 1 x-15

Attemp	empt Incorrect Feedback	
1st	1st	
Correct Feedback		
Correct!		prrect!
	Global Incorrect Feedback	
	The correct answer is: 15.	

Question 5a of 13 (3 determining the equation of a rational function from its graph 91979)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{x+2}$	
*В.	$F(x) = \frac{1}{x-2}$	Correct!
C.	$F(x) = \frac{1}{2x}$	
D.	$F(x) = \frac{2}{x}$	

Global Incorrect Feedback The correct answer is: $F(x) = \frac{1}{x-2}$.

 $Ouestion\ 5b\ of\ 13$ (3 determining the equation of a rational function from its graph 289952)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{x - 4}$	
В.	$f(x) = \frac{z}{x}$	
*C.	$F(x) = \frac{1}{x+4}$	Correct!
D.	F(x) = -4 *	

Global Incorrect Feedback	
The correct answer is: $f(x) = \frac{1}{x+4}$.	

 $Ouestion \ 5c \ of \ 13$ (3 determining the equation of a rational function from its graph 289953)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
*A.	$F(x) = \frac{1}{x - b}$	Correct!
В.	$F(x) = \frac{1}{x + \hat{v}}$	
C.	$\overline{f(x)} = \frac{1}{\frac{1}{2x}}$	
D.	$F(x) = \frac{x}{h}$	

Global Incorrect Fee	dback
The correct answer is:	$f(x) = \frac{1}{x-6}$

 $Ouestion\ 6a\ of\ 13$ (3 determining the equation of a rational function from its graph 91980)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{4x}$	
*В.	$F(x) = \frac{1}{x+4}$	Correct!
C.	$F(x) = \frac{1}{x-4}$	
D.	$F(x) = \frac{4}{x}$	

Global Incorrect Feedback The correct answer is: $F(x) = \frac{1}{x+4}$.

Question 6b of 13 (3 determining the equation of a rational function from its graph 289954)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback	
Α.	$F(y) = \frac{1}{x - 1}$		
В.	$F(x) = \frac{1 + x}{x}$		
C.	$F(x) = \frac{-1}{x}$		
*D.	$F(y) = \frac{1}{x+1}$	Correct!	

Global Incorrect Feed	lback
F F	$[x] = \frac{1}{x+1}$
The correct answer Is:	^

Question 6c of 13 (3 determining the equation of a rational function from its graph 289955)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$f(x) = \frac{1}{4x}$	
В.	$F(x) = \frac{1}{4}$	
*C.	$F(x) = \frac{1}{x-4}$	Correct!
D.	$F(x) = \frac{1}{x+4}$	

Global Incorrect Feedback
The correct answer is: $f_{i}=\frac{1}{x-4}$.

Question 7a of 13 (3 determining the equation of a rational function from its graph 91981)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?





The correct answer is: $F(x) = \frac{1}{(x+4)^2}$.	

 $Ouestion\ 7b\ of\ 13$ (3 determining the equation of a rational function from its graph 289956)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{-1}{x-2}$	
*В.	$F(x) = \frac{1}{(x-2)^2}$	Correct!
C.	$F(x) = \frac{1}{2x^2}$	
D.	$F_{\overline{1}}$, $\frac{2}{r^{2}}$	

Global Incorrect Feedback
the correct answer is: ^{દ્યા} .

Question 7c of 13 (3 determining the equation of a rational function from its graph)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
A.	$F_{1}^{}(x) = \frac{1}{\left x + \frac{1}{2}\right ^{2}}$	Correct!
В.	$F(t) = \frac{1}{x^2 + 1}$	
C.	$F(x) = \frac{1}{ x-t ^2}$	
D.	$\mathbf{R}_{\mathbf{A}} = \frac{1}{x^{2}}$	

Global Incorrect Feedback	
ft)• <mark>1</mark> The correct answer is: ft)•1	

Question 8a of 13 (3 determining the equation of a rational function from its graph 91982)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{3x^2}$	
В.	$F(x) = \frac{3}{x^2}$	
*C.	$F(x) = \frac{1}{(x-3)^2}$	Correct!
D.	$F(x) = \frac{1}{(x+3)^2}$	

Global Incorrect Feedback	
1	
The correct answer is: $F(x) = (x-3)^2$.	

 $Ouestion\ 8b\ of\ 13$ (3 determining the equation of a rational function from its graph 289958)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
Α.	$F(x) = \frac{1}{5x^2}$	
*B.	$F(\mathbf{x}) = \frac{1}{(\mathbf{x} + 5)^2}$	Correct!
C.	$F(x) = \frac{1}{-5x^2}$	
D.	$F(x) = \frac{1}{(x-5)^2}$	

Global Incorrect Feedback	
The correct answer is	$f(x) = \frac{1}{(x+\theta)^2}$

Question 8c of 13 (3 determining the equation of a rational function from its graph)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph shown here is the graph of which rational function?



	Choice	Feedback
*A.	$i(\alpha) = \frac{1}{\kappa^2}$	Correct!
В.	$F(x) = \frac{1}{(x+1)^2}$	
C.	$F(x) = \frac{1}{(x - t)^2}$	
D.	$F(x) = \frac{1}{x^2}$	

Global Incorrect Feedback	
The correct answer is: $73 = \frac{1}{x^2}$.	

Question 9a of 13 (2 understanding the behavior of a rational function near a vertical asymptote 91983)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	<u>1</u>
	For the function $F(x) = x$ whose graph is shown below, what is the relative value of $F(x)$ when the value of x is close to zero?



	Choice	Feedback
А.	Either a very small positive or very small negative number	
В.	A very small positive number	
C.	Only a very large positive number	
*D.	Either a very large positive or very large negative number	Correct!
Ε.	Only a very large negative number	

The correct answer is: Either a very large positive or very large negative number.

 $Ouestion \ 9b \ of \ 13$ (2 understanding the behavior of a rational function near a vertical asymptote 289960)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	<u> 1 </u>
	For the function $F(x) = x - 2$ whose graph is shown below, what is the relative value of $F(x)$ when the value of x is close to 2?



	Choice	Feedback
*A.	Either a very large positive or very large negative number	Correct!
В.	A very large positive number	
C.	Only a very small positive number	
D.	Either a very small positive or very small negative number	
Ε.	Only a very large negative number	

The correct answer is: Either a very large positive or very large negative number.

 $Ouestion \ 9c \ of \ 13$ (2 understanding the behavior of a rational function near a vertical asymptote 289961)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	<u> 1 </u>
	For the function $F(x) = x+1$ whose graph is shown below, what is the relative value of $F(x)$ when the value of x is close to -1?



	Choice	Feedback
Α.	Either a very small positive or very small negative number	
В.	Only a very positive number	
C.	Only a very large negative number	
*D.	Either a very large positive or very large negative number	Correct!
Ε.	Either zero or a very large positive number	

The correct answer is: Either a very large positive or very large negative number.

 $Ouestion \ 10a \ of \ 13$ (2 understanding the behavior of a rational function near a vertical asymptote 91984)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Given the graph of the function $F(x)$ below, what happens to $F(x)$ when x is a very small negative number?



	Choice	Feedback
Α.	F(x) is a very small negative number.	
*B.	F(x) is a very large negative number.	Correct!
C.	F(x) is a very large positive number.	
D.	F(x) is a very small positive number.	

The correct answer is: F(x) is a very large negative number.

Question 10b of 13 (2 understanding the behavior of a rational function near a vertical asymptote 289962)

Maximum Attempts: 1

Question Type: Multiple Choice

2

Maximum Score:

Question:

Given the graph of the function F(x) below, what happens to F(x) when x is a very small negative number?



	Choice	Feedback
Α.	F(x) is a very small negative number.	
В.	F(x) is a very large negative number.	
*C.	F(x) is a very large positive number.	Correct!
D.	F(x) is a very small positive number.	

The correct answer is: F(x) is a very large positive number.

Question 10c of 13 (2 understanding the behavior of a rational function near a vertical asymptote 289963)

Maximum Attempts:

1

2

Multiple Choice

Question Type:

Maximum Score:

Question:

Given the graph of the function F(x) below, what happens to F(x) when x is number between 0 and 1?



	Choice	Feedback
Α.	F(x) is a very small negative number.	
*B.	F(x) is a very large negative number.	Correct!
C.	F(x) is a very large positive number.	
D.	F(x) is a very small positive number.	

Global Incorrect Feedback

The correct answer is: F(x) is a very large negative number.

Question 11a of 13 (2 understanding the behavior of a rational function near a vertical asymptote 91985)

Maximum Attempts:

Question Type: Multiple Choice

1

2

Maximum Score:

Question:

Given the graph of the function F(x) below, what happens to F(x) when *x* is a very small positive number?



	Choice	Feedback
Α.	F(x) is a very small negative number.	
В.	F(x) is a very large negative number.	
*C.	F(x) is a very large positive number.	Correct!
D.	F(x) is a very small positive number.	

Global Incorrect Feedback

The correct answer is: F(x) is a very large positive number.

Question 11b of 13 (2 understanding the behavior of a rational function near a

vertical asymptote 289964)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Given the graph of the function $F(x)$ below, what happens to $F(x)$ when x is a very large positive number?



	Choice	Feedback
Α.	F(x) is a very small negative number.	
В.	F(x) is a very large negative number.	
C.	F(x) is a very large positive number.	
*D.	F(x) is a very small positive number.	Correct!

The correct answer is: F(x) is a very small positive number.

Question 11c of 13 (2 understanding the behavior of a rational function near a vertical asymptote 289965)

Maximum Attempts: 1

Question Type: Multiple Choice

2

Maximum Score:

Question:

Given the graph of the function F(x) below, what happens to F(x) when x is a very large negative number?



	Choice	Feedback
* A .	F(x) is a very small negative number.	Correct!
В.	F(x) is a very large negative number.	
C.	F(x) is a very large positive number.	
D.	F(x) is a very small positive number.	

The correct answer is: F(x) is a very small negative number.

Question 12a of 13 (1 understanding vertical asymptotes 91986)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which pair of terms correctly completes the following sentence?
Question:	which pair of terms correctly completes the following sentence?

A function has *vertical asymptotes* at *x*-values for which it is _____ and near which the function's values become very _____ positive or negative numbers.

	Choice	Feedback
* A .	undefined; large	Correct!
В.	undefined; small	
C.	defined; large	
D.	defined; small	

Global Incorrect Feedback

The correct answer is: undefined; large.

Question 12b of 13 (1 understanding vertical asymptotes 289966)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which term correctly completes the following sentence?
	Near a function's vertical asymptotes, its values become very

positive or negative numbers.

	Choice	Feedback
Α.	small	
*B.	large	correct!

C.	undefined	
D.	rational	

The correct answer is: large.

Question 12c of 13 (1 understanding vertical asymptotes 289967)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
uestion: Which term correctly completes the following sentence	

If a function has a vertical asymptote at a certain x-value, then the function is _____ at that value.

	Choice	Feedback
Α.	negative	
В.	rational	
C.	zero	
*D.	undefined	Correct!

Global Incorrect Feedback

The correct answer is: undefined.

Question 13a of 13 (2 understanding vertical asymptotes 91987)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	By checking the values for a function on only one side of its asymptote, you can know for sure how the graph should look.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

Question 13b of 13 (2 understanding vertical asymptotes 289968)Maximum Attempts:
Question Type:	True-False
Maximum Score:	2
Question:	To get a good idea of how its graph should look, you should always check a function's values on both sides of its asymptote.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback	
The correct answer is: True.	

Question 13c of 13 (2 understanding vertical asymptotes 289969)

Choice		Feedback
Question:	To get a good idea of how its graph should look, you should check the value of a function on its asymptote.	
Maximum Score:	2	
Question Type:	True-False	
Maximum Attempts:	1	

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.