

Quiz: Simplifying Quotients of Radicals

Question 1a of 15 (3 Quotients of Radicals 92000)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{45}}{\sqrt{9}}$$

	Choice	Feedback
A.	$\frac{\sqrt{5}}{3}$	
B.	$\frac{5}{3}$	
*C.	$\sqrt{5}$	Correct!
D.	5	

Global Incorrect Feedback

The correct answer is: $\sqrt{5}$.

Question 1b of 15 (3 Quotients of Radicals 295173)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt[3]{40}}{\sqrt[3]{8}}$$

	Choice	Feedback
A.	$\frac{5}{2}$	
B.		
*C.		Correct!
D.	5	

Global Incorrect Feedback

The correct answer is: .

Question 1c of 15 (3 Quotients of Radicals 295174)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

Alg

	Choice	Feedback
*A.	$\sqrt{5}$	Correct!
B.	$\frac{\sqrt{5}}{7}$	
C.	$\frac{5}{7}$	
D.	5	

Global Incorrect Feedback

The correct answer is: $\sqrt{5}$.

Question 2a of 15 (3 Quotients of Radicals 92001)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{64}}{\sqrt{16}}$$

	Choice	Feedback
*A.	2	Correct!
B.	$\frac{\sqrt{8}}{2}$	
C.	$\sqrt{2}$	
D.	$\frac{\sqrt{4}}{4}$	

Global Incorrect Feedback

The correct answer is: 2.

Question 2b of 15 (3 Quotients of Radicals 295175)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

	Choice	Feedback
A.		
*B.	2	Correct!
C.		
D.		

Global Incorrect Feedback

The correct answer is: 2.

Question 2c of 15 (3 Quotients of Radicals 295176)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{16}}{\sqrt{4}}$$

	Choice	Feedback
A.	$\frac{\sqrt{4}}{4}$	
B.	$\frac{\sqrt{8}}{2}$	
C.	$\sqrt{2}$	
*D.	4	Correct!

Global Incorrect Feedback
The correct answer is: 4.

Question 3a of 15 (3 Quotients of Radicals 92002)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{32}}{\sqrt{8}}$$

	Choice	Feedback
*A.	2	Correct!
B.	4	
C.	$\frac{\sqrt{2}}{2}$	
D.		

Global Incorrect Feedback
The correct answer is: 2.

Question 3b of 15 (3 Quotients of Radicals 295177)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

Alg

	Choice	Feedback
A.	9	
B.	$\sqrt{12}$	
*C.	3	Correct!
D.	$\frac{\sqrt{2}}{2}$	

Global Incorrect Feedback
The correct answer is: 3.

Question 3c of 15 (3 Quotients of Radicals 295178)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{12}}{\sqrt{2}}$$

	Choice	Feedback
A.	2	
*B.	4	Correct!
C.	$\frac{\sqrt{2}}{2}$	
D.	$\sqrt{24}$	

Global Incorrect Feedback
The correct answer is: 4.

Question 4a of 15 (3 Quotients of Radicals 92003)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

	Choice	Feedback
A.		
B.		
*C.		Correct!
D.		

Global Incorrect Feedback
The correct answer is: .

Question 4b of 15 (3 Quotients of Radicals 295179)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{12}}{2\sqrt{3}}$$

	Choice	Feedback
A.	$\frac{\sqrt{3}}{4}$	
B.	$\frac{\sqrt{3}}{\sqrt{2}}$	
C.	$\sqrt{7}$	
*D.	$\frac{\sqrt{2}}{2}$	Correct!

Global Incorrect Feedback
The correct answer is: $\frac{\sqrt{2}}{2}$.

Question 4c of 15 (3 Quotients of Radicals 295181)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the quotient below?

$$\frac{\sqrt{5}}{3\sqrt{3}}$$

	Choice	Feedback
A.	$\frac{\sqrt{5}}{\sqrt{3}}$	
B.		
C.		
*D.		Correct!

Global Incorrect Feedback
The correct answer is: .

Alg

Question 5a of 15 (3 Quotients of Radicals 92004)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the quotient below? *Check all that apply.*

$$\frac{\sqrt{12}}{\sqrt{6}}$$

Correct Answers:

	Choice
A.	$\frac{\sqrt{6}}{2}$
B.	2
C.	$\frac{2}{\sqrt{3}}$
D.	$\frac{\sqrt{6}}{\sqrt{2}}$
*E.	$\frac{\sqrt{4}}{\sqrt{2}}$
*F.	$\sqrt{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: $\frac{\sqrt{4}}{\sqrt{2}}$ and $\sqrt{2}$.

Question 5b of 15 (3 Quotients of Radicals 295182)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the quotient below? *Check all that apply.*

Correct Answers:

Alg

	Choice
*A.	$\sqrt{2}$
B.	2
C.	$\frac{2}{\sqrt{3}}$
*D.	$\frac{\sqrt{4}}{\sqrt{2}}$
E.	$\frac{\sqrt{6}}{\sqrt{2}}$
F.	$\frac{\sqrt{6}}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: $\sqrt{2}$ and $\frac{\sqrt{4}}{\sqrt{2}}$.

Question 5c of 15 (3 Quotients of Radicals 295183)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the quotient below? *Check all that apply.*

$$\frac{\sqrt{18}}{\sqrt{5}}$$

Correct Answers:

	Choice
A.	
*B.	
*C.	
D.	
E.	
F.	2

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

Alg

Global Incorrect Feedback	
	The correct answers are: $\sqrt{2}$ and $\frac{\sqrt{4}}{\sqrt{2}}$.

Question 6a of 15 (3 Quotients of Radicals 92005)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the quotient below? *Check all that apply.*

$$\frac{\sqrt{75}}{\sqrt{15}}$$

Correct Answers:

	Choice
*A.	$\sqrt{5}$
*B.	$\frac{\sqrt{25}}{\sqrt{5}}$
C.	$\frac{15}{3}$
*D.	$\frac{\sqrt{15}}{\sqrt{3}}$
E.	$\sqrt{3}$
F.	5

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

Global Incorrect Feedback	
	The correct answers are: $\frac{\sqrt{25}}{\sqrt{5}}$, $\frac{\sqrt{15}}{\sqrt{3}}$.

Question 6b of 15 (3 Quotients of Radicals 295184)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the quotient below? *Check all that apply.*

Correct Answers:

Alg

	Choice
*A.	$\sqrt{5}$
B.	$\frac{15}{3}$
*C.	$\frac{\sqrt{25}}{\sqrt{5}}$
D.	5
E.	$\sqrt{3}$
*F.	$\frac{\sqrt{15}}{\sqrt{3}}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: $\sqrt{5}$, $\frac{\sqrt{25}}{\sqrt{5}}$, and $\frac{\sqrt{15}}{\sqrt{3}}$.

Question 6c of 15 (3 Quotients of Radicals 295185)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the quotient below? *Check all that apply.*

$$\frac{\sqrt{20}}{\sqrt{10}}$$

Correct Answers:

	Choice
A.	5
*B.	
C.	
D.	
*E.	
*F.	

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

Alg

Global Incorrect Feedback	
	The correct answers are: $\frac{\sqrt{25}}{\sqrt{5}}$, $\frac{\sqrt{15}}{\sqrt{3}}$ and $\sqrt{5}$.

Question 7a of 15 (3 Quotients of Radicals 92006)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the product below? *Check all that apply.*

$$\sqrt{\frac{2}{3}} \cdot \sqrt{\frac{9}{8}}$$

Correct Answers:

	Choice
A.	$\frac{1}{4}$
*B.	$\sqrt{\frac{9}{12}}$
C.	$\sqrt{\frac{9}{24}}$
*D.	$\sqrt{\frac{18}{24}}$
*E.	$\frac{\sqrt{3}}{2}$
*F.	$\sqrt{\frac{3}{4}}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

Global Incorrect Feedback	
	The correct answers are: , , , and .

Question 7b of 15 (3 Quotients of Radicals 295186)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the product below? *Check all that apply.*

Correct Answers:

Alg

	Choice
*A.	$\sqrt{\frac{3}{4}}$
B.	$\sqrt{\frac{9}{24}}$
*C.	$\sqrt{\frac{9}{12}}$
*D.	$\sqrt{\frac{18}{24}}$
*E.	$\frac{\sqrt{3}}{2}$
F.	$\frac{3}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: $\sqrt{\frac{3}{4}}$, $\sqrt{\frac{9}{12}}$, $\sqrt{\frac{18}{24}}$, and $\frac{\sqrt{3}}{2}$.

Question 7c of 15 (3 Quotients of Radicals 295187)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the product below? *Check all that apply.*

$$\sqrt{\frac{1}{2}} \cdot \sqrt{\frac{7}{12}}$$

Correct Answers:

	Choice
*A.	
B.	
C.	
*D.	
*E.	
*F.	

Alg

Attempt	Incorrect Feedback
1st	
Correct Feedback	
	Correct!
Global Incorrect Feedback	
	The correct answers are: $\sqrt{\frac{15}{20}}$, $\sqrt{\frac{10}{40}}$, $\frac{\sqrt{3}}{2}$, and $\sqrt{\frac{3}{4}}$.

Question 8a of 15 (3 Quotients of Radicals 92007)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the product below? *Check all that apply.*

$$\sqrt{\frac{5}{8}} \cdot \sqrt{\frac{3}{5}}$$

Correct Answers:

	Choice
*A.	$\sqrt{\frac{3}{8}}$
*B.	$\sqrt{\frac{15}{40}}$
C.	$\frac{15}{40}$
D.	$\frac{\sqrt{15}}{40}$
E.	$\sqrt{\frac{24}{25}}$
F.	

Attempt	Incorrect Feedback
1st	
Correct Feedback	
	Correct!
Global Incorrect Feedback	
	The correct answers are: and .

Alg

Question 8b of 15 (3 Quotients of Radicals 295189)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the product below? *Check all that apply.*

$$\sqrt{\frac{5}{3}} \cdot \sqrt{\frac{2}{5}}$$

Correct Answers:

	Choice
A.	$\sqrt{\frac{24}{25}}$
*B.	$\frac{\sqrt{10}}{\sqrt{30}}$
C.	$\frac{1}{30}$
D.	$\frac{\sqrt{10}}{30}$
*E.	$\frac{1}{\sqrt{6}}$
F.	$\frac{3}{8}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: $\frac{\sqrt{10}}{\sqrt{30}}$ and $\frac{1}{\sqrt{6}}$.

Question 8c of 15 (3 Quotients of Radicals 295190)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

Question: Which choices are equivalent to the product below? *Check all that apply.*

Correct Answers:

Alg

	Choice
A.	$\frac{\sqrt{21}}{40}$
*B.	$\sqrt{\frac{3}{8}}$
C.	$\frac{21}{40}$
*D.	$\frac{\sqrt{21}}{\sqrt{56}}$
E.	$\sqrt{\frac{24}{25}}$
F.	$\frac{3}{8}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: $\sqrt{\frac{3}{8}}$ and $\frac{\sqrt{21}}{\sqrt{56}}$.

Question 9a of 15 (3 Quotients of Radicals 92008)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{30}}{\sqrt{6}}$$

	Choice	Feedback
A.	5	
B.	25	
*C.		
D.	-5	
E.		

Global Incorrect Feedback
The correct answer is: .

Alg

Question 9b of 15 (3 Quotients of Radicals 295191)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{36}}{\sqrt{6}}$$

	Choice	Feedback
A.	6	
B.	36	
C.	$-\sqrt{6}$	
D.	-6	
*E.	$\sqrt{6}$	Correct!

Global Incorrect Feedback
The correct answer is: $\sqrt{6}$.

Question 9c of 15 (3 Quotients of Radicals 295192)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{35}}{\sqrt{7}}$$

	Choice	Feedback
A.	5	
B.	25	
C.	-5	
D.		
*E.		Correct!

Global Incorrect Feedback
The correct answer is: .

Alg

Question 10a of 15 (3 Quotients of Radicals 92009)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{25}}{\sqrt{2}}$$

	Choice	Feedback
A.	25	
B.	-5	
*C.	5	Correct!
D.	2	

Global Incorrect Feedback

The correct answer is: 5.

Question 10b of 15 (3 Quotients of Radicals 295206)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{36}}{\sqrt{2}}$$

	Choice	Feedback
A.	36	
B.	-6	
C.	12	
*D.	6	Correct!

Global Incorrect Feedback

The correct answer is: 6.

Question 10c of 15 (3 Quotients of Radicals 295207)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property _____, which choice is equivalent to the quotient below?

Alg

	Choice	Feedback
A.	25	
*B.	5	Correct!
C.	-5	
D.	2	

Global Incorrect Feedback

The correct answer is: 5.

Question 11a of 15 (3 Quotients of Radicals 92010)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{48}}{\sqrt{3}}$$

	Choice	Feedback
*A.	4	Correct!
B.	-4	
C.	16	
D.	8	
E.	4 ²	

Global Incorrect Feedback

The correct answer is: 4.

Question 11b of 15 (3 Quotients of Radicals 295196)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property _____, which choice is equivalent to the quotient below?

	Choice	Feedback
A.	-4	
B.	8	
C.	16	
D.	4 ²	
*E.	4	Correct!

Global Incorrect Feedback

The correct answer is: 4.

Alg

Question 11c of 15 (3 Quotients of Radicals 295197)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{100}}{\sqrt{4}}$$

	Choice	Feedback
A.	-5	
B.	25	
*C.	5	Correct!
D.	10	
E.	5 ²	

Global Incorrect Feedback

The correct answer is: 5.

Question 12a of 15 (3 Quotients of Radicals 92011)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{18}}{\sqrt{2}}$$

	Choice	Feedback
A.	-3	
B.	-9	
C.	9	
*D.	3	Correct!

Global Incorrect Feedback

The correct answer is: 3.

Question 12b of 15 (3 Quotients of Radicals 295198)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property _____, which choice is equivalent to the quotient below?

Alg

	Choice	Feedback
A.	4	
B.	-2	
*C.	2	Correct!
D.	-4	

Global Incorrect Feedback
The correct answer is: 2.

Question 12c of 15 (3 Quotients of Radicals 295199)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question:

According to the property $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$, which choice is equivalent to the quotient below?

$$\frac{\sqrt{2}}{\sqrt{3}}$$

	Choice	Feedback
A.	-3	
B.	-9	
*C.	3	Correct!
D.	9	

Global Incorrect Feedback
The correct answer is: 3.

Question 13a of 15 (1 Quotients of Radicals 92012)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question:

The property of radicals for quotients states that the square root of a fraction is the square root of the denominator over the square root of the numerator.

	Choice	Feedback
A.	True	
*B.	False	Correct!

Global Incorrect Feedback
The correct answer is: False.

Question 13b of 15 (1 Quotients of Radicals 295200)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question:

The property of radicals for quotients states that the square root of a fraction is the square root of the denominator over the square root of the numerator.

	Choice	Feedback
A.	True	
*B.	False	Correct!

Global Incorrect Feedback
The correct answer is: False.

Question 13c of 15 (1 Quotients of Radicals 295201)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: The property of radicals for quotients states that the square root of a fraction is the square root of the denominator over the square root of the numerator.

	Choice	Feedback
A.	True	
*B.	False	Correct!

Global Incorrect Feedback
The correct answer is: False.

Question 14a of 15 (1 Quotients of Radicals 92013)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: Simplifying some radical expressions may require you to combine the rules for multiplication and division.

	Choice	Feedback
*A.	True	Correct!
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 14b of 15 (1 Quotients of Radicals 295202)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: Simplifying some radical expressions may require you to combine the rules for multiplication and division.

	Choice	Feedback
*A.	True	Correct!
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 14c of 15 (1 Quotients of Radicals 295203)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: Simplifying some radical expressions may require you to combine the rules for multiplication and division.

Alg

	Choice	Feedback
*A.	True	Correct!
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 15a of 15 (3 Quotients of Radicals 92014)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the product below?

$$\sqrt{8} \cdot \sqrt{18}$$

	Choice	Feedback
A.	$\frac{6}{2}$	
B.	$\frac{2}{4}$	
C.	$\frac{1}{2}$	
D.	$\frac{7}{1}$	
*E.	$\frac{7}{2}$	Correct!

Global Incorrect Feedback
The correct answer is: $\frac{7}{2}$.

Question 15b of 15 (3 Quotients of Radicals 295204)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the product below?

	Choice	Feedback
*A.		Correct!
B.		
C.		
D.		
E.		

Global Incorrect Feedback

The correct answer is: $\frac{5}{12}$.

Question 15c of 15 (3 Quotients of Radicals 295205)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which choice is equivalent to the product below?

$$\sqrt{\frac{1}{12}} \cdot \sqrt{\frac{1}{2}}$$

	Choice	Feedback
A.	$\frac{5}{12}$	
B.	$\frac{7}{4}$	
C.	$\frac{1}{2}$	
*D.	$\frac{5}{12}$	Correct!
E.	$\frac{7}{12}$	

Global Incorrect Feedback

The correct answer is: $\frac{5}{12}$.