PREVIEW CLOSE

Quiz: Factoring by Grouping

Question 1a of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 90894)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 3(x+3), (x+3)3, 3(1x+3), (1x+3)3, 3*(x+3), (x+3)*3, 3*(1x+3), (1x+3)*3, (3)(x+3), (x+3)(3), (3)(1x+3), (1x+3)(3), (3)*(x+3), (x+3)*(3), (3)*(1x+3), (1x+3)*(3), 3(x^1+3), (x^1+3)3, 3(1x^1+3), (1x^1+3)3, 3*(x^1+3), (x^1+3)*3, 3*(1x^1+3), (1x^1+3)*3, (3)(x^1+3), (x^1+3)(3), (3)(1x^1+3), (1x^1+3)(3), (3)*(x^1+3), (x^1+3)*(3), (3)*(1x^1+3), (1x^1+3)*(3)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$3x + 9$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $3(x + 3)$.

Question 1b of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294878)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 3(x+2), (x+2)3, 3(1x+2), (1x+2)3, 3*(x+2), (x+2)*3, 3*(1x+2), (1x+2)*3, (3)(x+2), (x+2)(3), (3)(1x+2), (1x+2)(3), (3)*(x+2), (x+2)*(3), (3)*(1x+2), (1x+2)*(3), 3(x^1+2), (x^1+2)3, 3(1x^1+2), (1x^1+2)3, 3*(x^1+2), (x^1+2)*3, 3*(1x^1+2), (1x^1+2)*3, (3)(x^1+2), (x^1+2)(3), (3)(1x^1+2), (1x^1+2)(3), (3)*(x^1+2), (x^1+2)*(3), (3)*(1x^1+2), (1x^1+2)*(3)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$3x + 6$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $3(x + 2)$.

Question 1c of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294879)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 3(x+4), (x+4)3, 3(1x+4), (1x+4)3, 3*(x+4), (x+4)*3, 3*(1x+4), (1x+4)*3, (3)(x+4), (x+4)(3), (3)(1x+4), (1x+4)(3), (3)*(x+4), (x+4)*(3), (3)*(1x+4), (1x+4)*(3), 3(x^1+4), (x^1+4)3, 3(1x^1+4), (1x^1+4)3, 3*(x^1+4), (x^1+4)*3, 3*(1x^1+4), (1x^1+4)*3, (3)(x^1+4), (x^1+4)(3), (3)(1x^1+4), (1x^1+4)(3), (3)*(x^1+4), (x^1+4)*(3), (3)*(1x^1+4), (1x^1+4)*(3)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$3x + 12$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $3(x + 4)$.

Question 2a of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 90895)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 5(x-3), (x-3)5, 5(1x-3), (1x-3)5, 5*(x-3), (x-3)*5, 5*(1x-3), (1x-3)*5, (5)(x-3), (x-3)(5), (5)(1x-3), (1x-3)(5), (5)*(x-3), (x-3)*(5), (5)*(1x-3), (1x-3)*(5), 5(x^1-3), (x^1-3)5, 5(1x^1-3), (1x^1-3)5, 5*(x^1-3), (x^1-3)*5, 5*(1x^1-3), (1x^1-3)*5, (5)(x^1-3), (x^1-3)(5), (5)(1x^1-3), (1x^1-3)(5), (5)*(x^1-3), (x^1-3)*(5), (5)*(1x^1-3), (1x^1-3)*(5)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$5x - 15$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $5(x - 3)$.

Question 2b of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294880)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 6(x-3), (x-3)6, 6(1x-3), (1x-3)6, 6*(x-3), (x-3)*6, 6*(1x-3), (1x-3)*6, (6)(x-3), (x-3)(6), (6)(1x-3), (1x-3)(6), (6)*(x-3), (x-3)*(6), (6)*(1x-3), (1x-3)*(6), 6(x^1-3), (x^1-3)6, 6(1x^1-3), (1x^1-3)6, 6*(x^1-3), (x^1-3)*6, 6*(1x^1-3), (1x^1-3)*6, (6)(x^1-3), (x^1-3)(6), (6)(1x^1-3), (1x^1-3)(6), (6)*(x^1-3), (x^1-3)*(6), (6)*(1x^1-3), (1x^1-3)*(6)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$6x - 18$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $6(x - 3)$.

Question 2c of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294881)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 7(x-3), (x-3)7, 7(1x-3), (1x-3)7, 7*(x-3), (x-3)*7, 7*(1x-3), (1x-3)*7, (7)(x-3), (x-3)(7), (7)(1x-3), (1x-3)(7), (7)*(x-3), (x-3)*(7), (7)*(1x-3), (1x-3)*(7), 7(x^1-3), (x^1-3)7, 7(1x^1-3), (1x^1-3)7, 7*(x^1-3), (x^1-3)*7, 7*(1x^1-3), (1x^1-3)*7, (7)(x^1-3), (x^1-3)(7), (7)(1x^1-3), (1x^1-3)(7), (7)*(x^1-3), (x^1-3)*(7), (7)*(1x^1-3), (1x^1-3)*(7)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$7x - 21$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $7(x - 3)$.

Question 3a of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 90896)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: x(5x+9), (x-0)(5x+9), (5x+9)(x-0), (x-0)*(5x+9), (5x+9)*(x-0), (1x-0)(5x+9), (5x+9)(1x-0), (1x-0)*(5x+9), (5x+9)*(1x-0), x(5x+9), (5x+9)x, x*(5x+9), (5x+9)*x, 1x(5x+9), (5x+9)1x, 1x*(5x+9), (5x+9)*1x, (x)(5x+9), (5x+9)(x), (x)*(5x+9), (5x+9)*(x), (1x)(5x+9), (5x+9)(1x), (1x)*(5x+9), (5x+9)*(1x), (x^1-0)(5x^1+9), (5x^1+9)(x^1-0), (x^1-0)*(5x^1+9), (5x^1+9)*(x^1-0), (1x^1-0)(5x^1+9), (5x^1+9)(1x^1-0), (1x^1-0)*(5x^1+9), (5x^1+9)*(1x^1-0), x^1(5x^1+9), (5x^1+9)x^1, x^1*(5x^1+9), (5x^1+9)*x^1, 1x^1(5x^1+9), (5x^1+9)1x^1, 1x^1*(5x^1+9), (5x^1+9)*1x^1, (x^1)(5x^1+9), (5x^1+9)(x^1), (x^1)*(5x^1+9), (5x^1+9)*(x^1), (1x^1)(5x^1+9), (5x^1+9)(1x^1), (1x^1)*(5x^1+9), (5x^1+9)*(1x^1)

Question: Use the grouping method to express the polynomial below as a product of its factors. Write each factor as a polynomial in descending order.

$5x^2 + 9x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $x(5x + 9)$.

Question 3b of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294882)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: x(5x+8), (x-0)(5x+8), (5x+8)(x-0), (x-0)*(5x+8), (5x+8)*(x-0), (1x-0)(5x+8), (5x+8)(1x-0), (1x-0)*(5x+8), (5x+8)*(1x-0), x(5x+8), (5x+8)x, x*(5x+8), (5x+8)*x, 1x(5x+8), (5x+8)1x, 1x*(5x+8), (5x+8)*1x, (x)(5x+8), (5x+8)(x), (x)*(5x+8), (5x+8)*(x), (1x)(5x+8), (5x+8)(1x), (1x)*(5x+8), (5x+8)*(1x), (x^1-0)(5x^1+8), (5x^1+8)(x^1-0), (x^1-0)*(5x^1+8), (5x^1+8)*(x^1-0), (1x^1-0)(5x^1+8), (5x^1+8)(1x^1-0), (1x^1-0)*(5x^1+8), (5x^1+8)*(1x^1-0), x^1(5x^1+8), (5x^1+8)x^1, x^1*(5x^1+8), (5x^1+8)*x^1, 1x^1(5x^1+8), (5x^1+8)1x^1, 1x^1*(5x^1+8), (5x^1+8)*1x^1, (x^1)(5x^1+8), (5x^1+8)(x^1), (x^1)*(5x^1+8), (5x^1+8)*(x^1), (1x^1)(5x^1+8), (5x^1+8)(1x^1), (1x^1)*(5x^1+8), (5x^1+8)*(1x^1)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$5x^2 + 8x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $x(5x + 8)$.

Question 3c of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294883)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: x(5x+7), (x-0)(5x+7), (5x+7)(x-0), (x-0)*(5x+7), (5x+7)*(x-0), (1x-0)(5x+7), (5x+7)(1x-0), (1x-0)*(5x+7), (5x+7)*(1x-0), x(5x+7), (5x+7)x, x*(5x+7), (5x+7)*x, 1x(5x+7), (5x+7)1x, 1x*(5x+7), (5x+7)*1x, (x)(5x+7), (5x+7)(x), (x)*(5x+7), (5x+7)*(x), (1x)(5x+7), (5x+7)(1x), (1x)*(5x+7), (5x+7)*(1x), (x^1-0)(5x^1+7), (5x^1+7)(x^1-0), (x^1-0)*(5x^1+7), (5x^1+7)*(x^1-0), (1x^1-0)(5x^1+7), (5x^1+7)(1x^1-0), (1x^1-0)*(5x^1+7), (5x^1+7)*(1x^1-0), x^1(5x^1+7), (5x^1+7)x^1, x^1*(5x^1+7), (5x^1+7)*x^1, 1x^1(5x^1+7), (5x^1+7)1x^1, 1x^1*(5x^1+7), (5x^1+7)*1x^1, (x^1)(5x^1+7), (5x^1+7)(x^1), (x^1)*(5x^1+7), (5x^1+7)*(x^1), (1x^1)(5x^1+7), (5x^1+7)(1x^1), (1x^1)*(5x^1+7), (5x^1+7)*(1x^1)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$5x^2 + 7x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $x(5x + 7)$.

Question 4a of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 90897)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: x(6x-11), (x-0)(6x-11), (6x-11)(x-0), (x-0)*(6x-11), (6x-11)*(x-0), (1x-0)(6x-11), (6x-11)(1x-0), (1x-0)*(6x-11), (6x-11)*(1x-0), x(6x-11), (6x-11)x, x*(6x-11), (6x-11)*x, 1x(6x-11), (6x-11)1x, 1x*(6x-11), (6x-11)*1x, (x)(6x-11), (6x-11)(x), (x)*(6x-11), (6x-11)*(x), (1x)(6x-11), (6x-11)(1x), (1x)*(6x-11), (6x-11)*(1x), (x^1-0)(6x^1-11), (6x^1-11)(x^1-0), (x^1-0)*(6x^1-11), (6x^1-11)*(x^1-0), (1x^1-0)(6x^1-11), (6x^1-11)(1x^1-0), (1x^1-0)*(6x^1-11), (6x^1-11)*(1x^1-0), x^1(6x^1-11), (6x^1-11)x^1, x^1*(6x^1-11), (6x^1-11)*x^1, 1x^1(6x^1-11), (6x^1-11)1x^1, 1x^1*(6x^1-11), (6x^1-11)*1x^1, (x^1)(6x^1-11), (6x^1-11)(x^1), (x^1)*(6x^1-11), (6x^1-11)*(x^1), (1x^1)(6x^1-11), (6x^1-11)(1x^1), (1x^1)*(6x^1-11), (6x^1-11)*(1x^1)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$6x^2 - 11x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $x(6x - 11)$.

Question 4b of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294884)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: x(6x-13), (x-0)(6x-13), (6x-13)(x-0), (x-0)*(6x-13), (6x-13)*(x-0), (1x-0)(6x-13), (6x-13)(1x-0), (1x-0)*(6x-13), (6x-13)*(1x-0), x(6x-13), (6x-13)x, x*(6x-13), (6x-13)*x, 1x(6x-13), (6x-13)1x, 1x*(6x-13), (6x-13)*1x, (x)(6x-13), (6x-13)(x), (x)*(6x-13), (6x-13)*(x), (1x)(6x-13), (6x-13)(1x), (1x)*(6x-13), (6x-13)*(1x), (x^1-0)(6x^1-13), (6x^1-13)(x^1-0), (x^1-0)*(6x^1-13), (6x^1-13)*(x^1-0), (1x^1-0)(6x^1-13), (6x^1-13)(1x^1-0), (1x^1-0)*(6x^1-13), (6x^1-13)*(1x^1-0), x^1(6x^1-13), (6x^1-13)x^1, x^1*(6x^1-13), (6x^1-13)*x^1, 1x^1(6x^1-13), (6x^1-13)1x^1, 1x^1*(6x^1-13), (6x^1-13)*1x^1, (x^1)(6x^1-13), (6x^1-13)(x^1), (x^1)*(6x^1-13), (6x^1-13)*(x^1), (1x^1)(6x^1-13), (6x^1-13)(1x^1), (1x^1)*(6x^1-13), (6x^1-13)*(1x^1)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$6x^2 - 13x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $x(6x - 13)$.

Question 4c of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294885)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: x(5x-13), (x-0)(5x-13), (5x-13)(x-0), (x-0)*(5x-13), (5x-13)*(x-0), (1x-0)(5x-13), (5x-13)(1x-0), (1x-0)*(5x-13), (5x-13)*(1x-0), x(5x-13), (5x-13)x, x*(5x-13), (5x-13)*x, 1x(5x-13), (5x-13)1x, 1x*(5x-13), (5x-13)*1x, (x)(5x-13), (5x-13)(x), (x)*(5x-13), (5x-13)*(x), (1x)(5x-13), (5x-13)(1x), (1x)*(5x-13), (5x-13)*(1x), (x^1-0)(5x^1-13), (5x^1-13)(x^1-0), (x^1-0)*(5x^1-13), (5x^1-13)*(x^1-0), (1x^1-0)(5x^1-13), (5x^1-13)(1x^1-0), (1x^1-0)*(5x^1-13), (5x^1-13)*(1x^1-0), x^1(5x^1-13), (5x^1-13)x^1, x^1*(5x^1-13), (5x^1-13)*x^1, 1x^1(5x^1-13), (5x^1-13)1x^1, 1x^1*(5x^1-13), (5x^1-13)*1x^1, (x^1)(5x^1-13), (5x^1-13)(x^1), (x^1)*(5x^1-13), (5x^1-13)*(x^1), (1x^1)(5x^1-13), (5x^1-13)(1x^1), (1x^1)*(5x^1-13), (5x^1-13)*(1x^1)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$5x^2 - 13x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $x(5x - 13)$.

Question 5a of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 90898)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: (x-2)(5x-8), (5x-8)(x-2), (5x-8)*(x-2), (x-2)*(5x-8), (5x-8)(1x-2), (1x-2)(5x-8), (5x-8)*(1x-2), (1x-2)*(5x-8), (5x^1-8)(x^1-2), (x^1-2)(5x^1-8), (5x^1-8)*(x^1-2), (x^1-2)*(5x^1-8), (5x^1-8)(1x^1-2), (1x^1-2)(5x^1-8), (5x^1-8)*(1x^1-2), (1x^1-2)*(5x^1-8)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$x(5x - 8) - 2(5x - 8)$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 2)(5x - 8)$.

Question 5b of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294886)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: (x-3)(5x-8), (5x-8)(x-3), (5x-8)*(x-3), (x-3)*(5x-8), (5x-8)(1x-3), (1x-3)(5x-8), (5x-8)*(1x-3), (1x-3)*(5x-8), (5x^1-8)(x^1-3), (x^1-3)(5x^1-8), (5x^1-8)*(x^1-3), (x^1-3)*(5x^1-8), (5x^1-8)(1x^1-3), (1x^1-3)(5x^1-8), (5x^1-8)*(1x^1-3), (1x^1-3)*(5x^1-8)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$x(5x - 8) - 3(5x - 8)$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 3)(5x - 8)$.

Question 5c of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294887)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: (x-4)(5x-8), (5x-8)(x-4), (5x-8)*(x-4), (x-4)*(5x-8), (5x-8)(1x-4), (1x-4)(5x-8), (5x-8)*(1x-4), (1x-4)*(5x-8), (5x^1-8)(x^1-4), (x^1-4)(5x^1-8), (5x^1-8)*(x^1-4), (x^1-4)*(5x^1-8), (5x^1-8)(1x^1-4), (1x^1-4)(5x^1-8), (5x^1-8)*(1x^1-4), (1x^1-4)*(5x^1-8)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$x(5x - 8) - 4(5x - 8)$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: (*x* - 4)(5*x* - 8).

Question 6a of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 90899)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: (10x-7)(x+11), (x+11)(10x-7), (10x-7)*(x+11), (x+11)*(10x-7), (10x-7)(1x+11), (1x+11)(10x-7), (10x-7)*(1x+11), (1x+11)*(10x-7), (10x^1-7)(x^1+11), (x^1+11)(10x^1-7), (10x^1-7)*(x^1+11), (x^1+11)*(10x^1-7), (10x^1-7)(1x^1+11), (1x^1+11)(10x^1-7), (10x^1-7)*(1x^1+11), (1x^1+11)*(10x^1-7)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

x(10*x* - 7) + 11(10*x* - 7)

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: (10*x* - 7)(*x* + 11).

Question 6b of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294888)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: (10x-8)(x+11), (x+11)(10x-8), (10x-8)*(x+11), (x+11)*(10x-8), (10x-8)(1x+11), (1x+11)(10x-8), (10x-8)*(1x+11), (1x+11)*(10x-8), (10x^1-8)(x^1+11), (x^1+11)(10x^1-8), (10x^1-8)*(x^1+11), (x^1+11)*(10x^1-8), (10x^1-8)(1x^1+11), (1x^1+11)(10x^1-8), (10x^1-8)*(1x^1+11), (1x^1+11)*(10x^1-8)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

x(10*x* - 8) + 11(10*x* - 8)

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: (10*x* - 8)(*x* + 11).

Question 6c of 15 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294889)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: (10x-9)(x+11), (x+11)(10x-9), (10x-9)*(x+11), (x+11)*(10x-9), (10x-9)(1x+11), (1x+11)(10x-9), (10x-9)*(1x+11), (1x+11)*(10x-9), (10x^1-9)(x^1+11), (x^1+11)(10x^1-9), (10x^1-9)*(x^1+11), (x^1+11)*(10x^1-9), (10x^1-9)(1x^1+11), (1x^1+11)(10x^1-9), (10x^1-9)*(1x^1+11), (1x^1+11)*(10x^1-9)

Question: Use the grouping method to express the polynomial below as a product of its factors. *Write each factor as a polynomial in descending order.*

$x(10x - 9) + 11(10x - 9)$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(10x - 9)(x + 11)$.

Question 7a of 15 (1 Identify the greatest common factor (GCF) in a polynomia 120546)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: The grouping method of factoring can still be used when only some of the terms share a common factor.

	Choice	Feedback
***A.**	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 7b of 15 (1 Identify the greatest common factor (GCF) in a polynomia 120546)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: The grouping method of factoring can still be used when only some of the terms share a common factor.

	Choice	Feedback
***A.**	True	
B.	False	

Global Incorrect Feedback
The correct answer is True.

Question 7c of 15 (1 Identify the greatest common factor (GCF) in a polynomia 120546)

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: The grouping method of factoring can still be used when only some of the terms share a common factor.

	Choice	Feedback
*A.	True	
B.	False	

Global Incorrect Feedback
The correct answer is True.

Question 8a of 15 (2 Identify the greatest common factor (GCF) in a polynomia 120638)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 3
Question: Find the common factor of all the terms of the polynomial $3x + 6$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 3.

Question 8b of 15 (2 Identify the greatest common factor (GCF) in a polynomia 294896)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 2
Question: Find the common factor of all the terms of the polynomial $2x + 4$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 2.

Question 8c of 15 (2 Identify the greatest common factor (GCF) in a polynomia 294897)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 4
Question: Find the common factor of all the terms of the polynomial $4x + 8$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 4.

Question 9a of 15 (1 Identify the greatest common factor (GCF) in a polynomia 120643)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: greatest
Question: The terms of a polynomial will ofte have more than one factor in common. When this happens, you should factor out the _____ common factor, abbreviated as GCF.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: greatest.

Question 9b of 15 (1 Identify the greatest common factor (GCF) in a polynomia 294926)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: common
Question: Often the terms of a polynomial will have more than one factor in common. When this happens, you should factor out the greatest _____ factor, abbreviated as GCF.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: common.

Question 9c of 15 (1 Identify the greatest common factor (GCF) in a polynomia 294927)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: greatest
Question: Often the terms of a polynomial will have more than one factor in common. When this happens, you should factor out the _____ common factor, abbreviated as GCF.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: greatest.

Question 10a of 15 (2 Identify the greatest common factor (GCF) in a polynomia 120641)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 8
Question: Find the common factor of all the terms of the polynomial $8x - 24$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 8.

Question 10b of 15 (2 Identify the greatest common factor (GCF) in a polynomia 294928)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 9
Question: Find the common factor of all the terms of the polynomial $9x - 27$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 9.

Question 10c of 15 (2 Identify the greatest common factor (GCF) in a polynomia 294929)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 10
Question: Find the common factor of all the terms of the polynomial $10x - 30$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 10.

Question 11a of 15 (2 Identify the greatest common factor (GCF) in a polynomia 120642)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 2x, x2, 2*x, x*2, 2x^1, 2*x^1, x^1*2
Question: Find the common factor of all of the terms of the polynomial below.

$14x^2 - 12x$

Attempt	**Incorrect Feedback**
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $2x$.

Question 11b of 15 (2 Identify the greatest common factor (GCF) in a polynomia 294930)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 3x, x3, 3*x, x*3, 3x^1, 3*x^1, x^1*3
Question: Find the common factor of all the terms of the polynomial $15x^2 - 12x$.

Attempt	**Incorrect Feedback**
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $3x$.

Question 11c of 15 (2 Identify the greatest common factor (GCF) in a polynomia 294932)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 2x, x2, 2*x, x*2, 2x^1, 2*x^1, x^1*2
Question: Find the common factor of all the terms of the polynomial $16x^2 - 14x$.

Attempt	**Incorrect Feedback**
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 2*x*.

Question 12a of 15 (1 Use the grouping method to factor one or more GCFs out of a polynomial 329824)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: Often the terms of a polynomial will have more than one factor in common. When this happens, you should factor out the greatest common factor, abbreviated as GCF.

	Choice	Feedback
***A.**	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 12b of 15 (1 Use the grouping method to factor one or more GCFs out of a polynomial 329824)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: Often the terms of a polynomial will have more than one factor in common. When this happens, you should factor out the greatest common factor, abbreviated as GCF.

	Choice	Feedback
***A.**	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 12c of 15 (1 Use the grouping method to factor one or more GCFs out of a polynomial 329824)

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

Question: Often the terms of a polynomial will have more than one factor in common. When this happens, you should factor out the greatest common factor, abbreviated as GCF.

	Choice	Feedback
***A.**	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 13a of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 120644)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 5x(3x^2+2), (5x-0)(3x^2+2), (3x^2+2)(5x-0), (5x-0)*(3x^2+2), (3x^2+2)*(5x-0), 5x(3x^2+2), (3x^2+2)5x, 5x*(3x^2+2), (3x^2+2)*5x, (5x)(3x^2+2), (3x^2+2)(5x), (5x)*(3x^2+2), (3x^2+2)*(5x), (5x^1-0)(3x^2+2), (3x^2+2)(5x^1-0), (5x^1-0)*(3x^2+2), (3x^2+2)*(5x^1-0), 5x^1(3x^2+2), (3x^2+2)5x^1, 5x^1*(3x^2+2), (3x^2+2)*5x^1, (5x^1)(3x^2+2), (3x^2+2)(5x^1), (5x^1)*(3x^2+2), (3x^2+2)*(5x^1)

Question: Factor the polynomial. Write each factor as a polynomial in descending order. Enter exponents using the caret (^). For example, you would enter $4x^2$ as 4x^2.

$15x^3 + 10x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $5x(3x^2 + 2)$.

Question 13b of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 294933)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 5x(4x^2+3), (5x-0)(4x^2+3), (4x^2+3)(5x-0), (5x-0)*(4x^2+3), (4x^2+3)*(5x-0), 5x(4x^2+3), (4x^2+3)5x, 5x*(4x^2+3), (4x^2+3)*5x, (5x)(4x^2+3), (4x^2+3)(5x), (5x)*(4x^2+3), (4x^2+3)*(5x), (5x^1-0)(4x^2+3), (4x^2+3)(5x^1-0), (5x^1-0)*(4x^2+3), (4x^2+3)*(5x^1-0), 5x^1(4x^2+3), (4x^2+3)5x^1, 5x^1*(4x^2+3), (4x^2+3)*5x^1, (5x^1)(4x^2+3), (4x^2+3)(5x^1), (5x^1)*(4x^2+3), (4x^2+3)*(5x^1)

Question: Factor the polynomial. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter $4x^2$ as 4x^2.

$20x^3 + 15x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $5x(4x^2 + 3)$.

Question 13c of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 294934)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 5x(3x^2+4), (5x-0)(3x^2+4), (3x^2+4)(5x-0), (5x-0)*(3x^2+4), (3x^2+4)*(5x-0), 5x(3x^2+4), (3x^2+4)5x, 5x*(3x^2+4), (3x^2+4)*5x, (5x)(3x^2+4), (3x^2+4)(5x), (5x)*(3x^2+4), (3x^2+4)*(5x), (5x^1-0)(3x^2+4), (3x^2+4)(5x^1-0), (5x^1-0)*(3x^2+4), (3x^2+4)*(5x^1-0), 5x^1(3x^2+4), (3x^2+4)5x^1, 5x^1*(3x^2+4), (3x^2+4)*5x^1, (5x^1)(3x^2+4), (3x^2+4)(5x^1), (5x^1)*(3x^2+4), (3x^2+4)*(5x^1)

Question: Factor the polynomial. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter $4x^2$ as 4x^2.

$15x^3 + 20x$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $5x(3x^2 + 4)$.

Question 14a of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 120645)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 2(x+2), (x+2)2, 2(1x+2), (1x+2)2, 2*(x+2), (x+2)*2, 2*(1x+2), (1x+2)*2, (2)(x+2), (x+2)(2), (2)(1x+2), (1x+2)(2), (2)*(x+2), (x+2)*(2), (2)*(1x+2), (1x+2)*(2), 2(x^1+2), (x^1+2)2, 2(1x^1+2), (1x^1+2)2, 2*(x^1+2), (x^1+2)*2, 2*(1x^1+2), (1x^1+2)*2, (2)(x^1+2), (x^1+2)(2), (2)(1x^1+2), (1x^1+2)(2), (2)*(x^1+2), (x^1+2)*(2), (2)*(1x^1+2), (1x^1+2)*(2)

Question: Factor the polynomial. *Write each factor as a polynomial in descending order.*

$2x + 4$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $2(x + 2)$.

Question 14b of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 294935)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 4(x+4), (x+4)4, 4(1x+4), (1x+4)4, 4*(x+4), (x+4)*4, 4*(1x+4), (1x+4)*4, (4)(x+4), (x+4)(4), (4)(1x+4), (1x+4)(4), (4)*(x+4), (x+4)*(4), (4)*(1x+4), (1x+4)*(4), 4(x^1+4), (x^1+4)4, 4(1x^1+4), (1x^1+4)4, 4*(x^1+4), (x^1+4)*4, 4*(1x^1+4), (1x^1+4)*4, (4)(x^1+4), (x^1+4)(4), (4)(1x^1+4), (1x^1+4)(4), (4)*(x^1+4), (x^1+4)*(4), (4)*(1x^1+4), (1x^1+4)*(4)

Question: Factor the polynomial. *Write each factor as a polynomial in descending order.*

$4x + 16$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $4(x + 4)$.

Question 14c of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 294936)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 5(x+5), (x+5)5, 5(1x+5), (1x+5)5, 5*(x+5), (x+5)*5, 5*(1x+5), (1x+5)*5, (5)(x+5), (x+5)(5), (5)(1x+5), (1x+5)(5), (5)*(x+5), (x+5)*(5), (5)*(1x+5), (1x+5)*(5), 5(x^1+5), (x^1+5)5, 5(1x^1+5), (1x^1+5)5, 5*(x^1+5), (x^1+5)*5, 5*(1x^1+5), (1x^1+5)*5, (5)(x^1+5), (x^1+5)(5), (5)(1x^1+5), (1x^1+5)(5), (5)*(x^1+5), (x^1+5)*(5), (5)*(1x^1+5), (1x^1+5)*(5)

Question: Factor the polynomial. *Write each factor as a polynomial in descending order.*

$5x + 25$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 15a of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 120648)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Factor the polynomial.

$2x^4 + 4x^3 + 6x^2$

	Choice	Feedback
A.	$2x^3(x + 2) + 6x^2$	
***B.**	$2x^2(x^2 + 2x + 3)$	
C.	$(2x^2 + 3x)(x^2 + 2x)$	
D.	$x^2(2x^3 + 3x^2 + 2x)$	

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

Question 15b of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 294937)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Factor the polynomial.

$3x^4 + 6x^3 + 9x^2$

	Choice	Feedback
A.	$3x^3(x + 2) + 9x^2$	
B.	$(3x^2 + 3x)(x^2 + 2x)$	
***C.**	$3x^2(x^2 + 2x + 3)$	
D.	$x^2(2x^3 + 3x^2 + 2x)$	

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

Question 15c of 15 (3 Use the grouping method to factor one or more GCFs out of a polynomial 294938)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Factor the polynomial.

$5x^4 + 10x^3 + 15x^2$

	Choice	Feedback
A.	$2x^3(x + 2) + 5x^2$	
B.	$(5x^2 + 2x)(x^2 + 5x)$	
C.	$3x^2(5x^3 + 3x^2 + 2x)$	
***D.**	$5x^2(x^2 + 2x + 3)$	

Global Incorrect Feedback
The correct answer is: $5x^2(x^2 + 2x + 3)$.
