PREVIEW	CLOSE	

Quiz: Factoring Polynomials

Question 1a of 15 (190992)

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

 $x^2 + 10x + 21$

	Choice	Feedback
А.	(10x + 4)(x + 3)	
в.	(x + 3)(7x + 3)	
*C.	(<i>x</i> + 7)(<i>x</i> + 3)	
D.	(<i>x</i> + 10)(<i>x</i> + 2)	

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

Question 1b of 15 (1 287288)

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

 $x^2 + 7x + 10$

	Choice	Feedback
А.	(10 <i>x</i> + 2)(<i>x</i> + 5)	
*В.	(<i>x</i> + 2)(<i>x</i> + 5)	
c.	(<i>x</i> + 7)(<i>x</i> + 3)	
D.	(<i>x</i> + 10)(<i>x</i> + 2)	

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

Question 1c of 15 (1 287289)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the factorization of the polynomial below?
	$x^2 + 8x + 15$

	Choice	Feedback
А.	(15 <i>x</i> + 5)(<i>x</i> + 3)	
в.	(x + 3)(x + 3)	
c.	(5 <i>x</i> + 5)(<i>x</i> + 3)	
*D.	(<i>x</i> + 3)(<i>x</i> + 5)	

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

Question 2a of 15 (190993)

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

 $x^2 + 11x + 18$

	Choice	Feedback
А.	(11 <i>x</i> + 1)(<i>x</i> + 9)	
в.	(x + 9)(2x + 9)	
*C.	(<i>x</i> + 2)(<i>x</i> + 9)	
D.	(<i>x</i> + 11)(<i>x</i> + 5)	

Global Incorrect Feedback The correct answer is: (x + 2)(x + 9).

Question 2b of 15 (1 287290)

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

 $x^2 + 12x + 27$

	Choice	Feedback
*A.	(x + 3)(x + 9)	
в.	(x + 9)(2x + 9)	
c.	(3 <i>x</i> + 3)(<i>x</i> + 9)	
D.	(12x + 1)(x + 2)	

Global Incorrect Feedback

The correct answer is: (x + 3)(x + 9).

Question 2c of 15 (1 287291)

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

 $x^2 + 12x + 20$

 Choice
 Feedback

 A.
 (12x + 1)(x) + 100

 B.
 (x + 5)(2x + 5)(2x + 5)(2x + 5)(2x + 5)

 C.
 (x + 12)(x + 5)(x + 100)

 *D.
 (x + 2)(x + 10)(x + 100)

Global Incorrect Feedback

The correct answer is: (x + 2)(x + 10).

Question 3a of 15 (190994)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the factors of the polynomial below?

 $x^2 + 7x - 18$

	Choice	Feedback
*A.	(x + 9)(x - 2)	
в.	(7 <i>x</i> + 9)(<i>x</i> - 2)	
c.	(x + 2)(9x - 2)	
D.	(7 <i>x</i> + 11)(<i>x</i> - 1)	

Global Incorrect Feedback

The correct answer is: (x + 9)(x - 2).

Question 3b of 15 (1 287292)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the factors of the polynomial below?

 $x^2 + 8x - 20$

	Choice	Feedback
Α.	(x + 8)(x - 2)	
*В.	(<i>x</i> + 10)(<i>x</i> - 2)	
c.	(x + 2)(8x - 2)	
D.	(8 <i>x</i> + 12)(<i>x</i> - 1)	

The correct answer is: (x + 10)(x - 2).

Question 3c of 15 (1 287293)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the factors of the polynomial below?

 $x^2 + 6x - 27$

	Choice	Feedback
Α.	(3 <i>x</i> + 9)(<i>x</i> - 3)	
в.	(x + 9)(9x - 3)	
c.	(x + 3)(9x - 3)	
*D.	(x + 9)(x - 3)	

Global Incorrect Feedback The correct answer is: (x + 9)(x - 3).

Question 4a of 15 (190995)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the factors of the polynomial below?

 $x^2 + 5x - 14$

	Choice	Feedback
*A.	(x + 7)(x - 2)	
в.	(5 <i>x</i> + 7)(<i>x</i> - 2)	
c.	(5 <i>x</i> + 9)(<i>x</i> - 1)	
D.	(x + 2)(7x - 2)	

Global Incorrect Feedback The correct answer is: (x + 7)(x - 2).

Question 4b of 15 (1 287294)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the factors of the polynomial below?
	$x^2 + 4x - 21$

	Choice	Feedback
А.	(x + 7)(x - 2)	
в.	(5 <i>x</i> + 7)(<i>x</i> - 3)	
*C.	(x + 7)(x - 3)	
D.	(x + 7)(7x - 2)	

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

Question 4c of 15 (1 287295)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the factors of the polynomial below?

 $x^2 + 5x - 24$

	Choice	Feedback
Α.	(x + 8)(x - 2)	
в.	(3 <i>x</i> + 8)(<i>x</i> - 3)	
c.	(x + 8)(x - 1)	
*D.	(x + 8)(x - 3)	

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

Question 5a of 15 (190996)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	If the factors of a polynomial are $x - 2$ and $x - 5$, what values of x make that polynomial 0?

	Choice	Feedback
Α.	1 and 2	
В.	-2 and -5	
*C.	2 and 5	
D.	Cannot be determined	

Global Incorrect Feedback

The correct answer is: 2 and 5.

Question 5b of 15 (1 287296)

 Maximum Attempts:
 1

 Question Type:
 Multiple Choice

 Maximum Score:
 2

 Question:
 If the factors of a polynomial are x - 3 and x - 4, what values of x make that polynomial 0?

 Choice
 Feedback

 A
 1 and 2

	Choice	Feedback
Α.	1 and 2	
В.	-3 and -4	
*C.	3 and 4	
D.	Cannot be determined	

Global Incorrect Feedback

The correct answer is: 3 and 4.

Question 5c of 15 (1 287297)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	If the factors of a polynomial are $x - 4$ and $x - 5$, what values of x make that polynomial 0?

	Choice	Feedback
Α.	3 and 4	
В.	-4 and -5	
*C.	4 and 5	
D.	Cannot be determined	

Global Incorrect Feedback

The correct answer is: 4 and 5.

Question 6a of 15 (190997)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	If the factors of a polynomial are $x + 2$ and $x + 6$, what values of x make that polynomial 0?

	Choice	Feedback
*A.	-2 and -6	
В.	1 and 2	
C.	2 and 6	
D.	Cannot be determined	

Global Incorrect Feedback

The correct answer is: -2 and -6.

Question 6b of 15 (1 287298)

 Maximum Attempts:
 1

 Question Type:
 Multiple Choice

 Maximum Score:
 2

 Question:
 If the factors of a polynomial are x + 3 and x + 7, what values of x make that polynomial 0?

 Choice
 Feedback

 XA
 2 and

		Choice	Feedback
×	κΑ.	-3 and -7	
E	3.	1 and 3	
		3 and 7	
) .	Cannot be determined	

Global Incorrect Feedback

The correct answer is: -3 and -7.

Question 6c of 15 (1 287299)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	If the factors of a polynomial are $x + 4$ and $x + 8$, what values of x make that polynomial 0?

	Choice	Feedback
Α.	1 and 4	
В.	4 and 8	
*C.	-4 and -8	
D.	Cannot be determined	

Global Incorrect Feedback

The correct answer is: -4 and -8.

Question 7a of 15 (190998)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the solutions to the equation below?

(x -	6)(7x ·	+ 49)	= 0
· ·			

	Choice	Feedback
А.	x = -6 and x = 7	
в.	x = -6 and x = 49	
*C.	x = 6 and x = -7	
D.	x = 6 and x = -49	

Global Incorrect Feedback

The correct answer is: x = 6 and x = -7.

Question 7b of 15 (1 287300)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the solutions to the equation below?
Question	what are the solutions to the equation below.

(x - 5)(6x + 36) = 0

	Choice	Feedback
Α.	x = -5 and x = 6	
*В.	x = 5 and x = -6	
c.	x = 6 and $x = -6$	
D.	x = 6 and x = -36	

Global Incorrect Feedback

The correct answer is: x = 5 and x = -6.

Question 7c of 15 (1 287301)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the solutions to the equation below?

	Choice	Feedback
*A.	x = 4 and x = -8	
в.	x = -4 and x = 48	
c.	x = 4 and $x = 8$	
D.	x = -4 and $x = -8$	

(x - 4)(8x + 64) = 0

Global Incorrect Feedback

The correct answer is: x = 4 and x = -8.

Question 8a of 15 (190999)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the solutions to the equation below?

(4x + 36)(8x - 40) = 0

	Choice	Feedback
Α.	x = 36 and x = -40	
*В.	x = -9 and x = 5	
c.	x = 9 and $x = -5$	
D.	x = -36 and $x = 40$	

The correct answer is: x = -9 and x = 5.

Question 8b of 15 (1 287304)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the solutions to the equation below?

(5x + 40)(4x - 24) = 0

	Choice	Feedback
А.	x = 40 and x = -24	
в.	x = 8 and x = -6	
c.	x = 24 and x = -40	
*D.	x = -8 and $x = 6$	

Global Incorrect Feedback The correct answer is: x = -8 and x = 6.

Question 8c of 15 (1 287305)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What are the solutions to the equation below?

(7x + 35)(2x - 12) = 0

	Choice	Feedback
*A.	x = -5 and x = 6	
в.	x = -6 and x = 5	
c.	x = 35 and x = -5	
D.	x = -35 and x = 12	

Global Incorrect Feedback The correct answer is: x = -5 and x = 6.

Question 9a of 15 (1 120439)

Maximum Attempts:	1		
Question Type:	Text Fill In Blank		
Maximum Score:	2		
Is Case Sensitive:	false		
Correct Answer:	polynomials		
Question:	Integers have factors that are integers, while polynomials have factors that are		

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: polynomials.

Question 9b of 15 (1 287306)

Maximum Attempts:	1	
Question Type:	Text Fill In Blank	
Maximum Score:	2	
Is Case Sensitive:	false	
Correct Answer:	polynomials	
Question:	Integers have factors that are integers, while polynomials have factors that are	

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

Question 9c of 15 (1 287307)

Maximum Attempts:	1	
Question Type:	Text Fill In Blank	
Maximum Score:	2	
Is Case Sensitive:	false	
Correct Answer:	polynomials	
Question:	Integers have factors that are integers, while polynomials have factors that are	

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

Question 10a of 15 (1120441)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	composite, composit
Question:	A number that can be factored is called
Attempt Incorrect Feed	dback
1st	
Correct Feedb	ack

Global Incorrect Feedback

The correct answer is: composite.

Question 10b of 15 (1 287308)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	factored, factor
Question:	A number that can be is called <i>composite</i> .
Attempt Incorrect Fe	edback
1st	
Correct Feed	lback
	rect Feedback
The correct a	nswer is: factored.

Question 10c of 15 (1287309)

•		
Maximur	n Attempts:	1
Question	n Type:	Text Fill In Blank
Maximur	n Score:	2
Is Case S	Sensitive:	false
Correct /	Answer:	composite, composit
Question	1:	A number that can be factored is called
Attempt	Incorrect Fee	edback
1st		
	Correct Feed	back
	Global Incorr	ect Feedback
	The correct ar	nswer is: composite.

Question 11a of 15 (1120443)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	reducible, reducable, reduceble
Question:	A polynomial that can be factored is called
Attempt Incorrect Feedback	
1st	
-	

Correct Feedback	
Global Incorrect Feedback	
The correct answer is: reducible.	

Question 11b of 15 (1287310)

Maximum Attempts:	1		
Question Type:	Text Fill In Blank		
Maximum Score:	2		
Is Case Sensitive:	false		
Correct Answer:	Answer: reducible, reducable, reduceble		
Question:			
Attempt Incorrect Feedback			
1st			
Correct Fee	dback		
Global Inco	rrect Feedback		
The correct	answer is: reducible.		

Question 11c of 15 (1287311)

Maximu	m Attempts:	1	
Question Type: Text Fill In Blank		Text Fill In Blank	
Maximu	n Score: 2		
Is Case	s Case Sensitive: false		
Correct	rect Answer: reducible, reducable, reduceble		
Questio	stion: A polynomial that can be factored is called		
Attemp	t Incorrect Feedback		
1st			
	Correct Feed	back	
	Global Incor	rect Feedback	
		nswer is: reducible.	

Question 12a of 15 (1120444)

1

2

True-False

Maximum Attempts:
Question Type:
Maximum Score:
Question:

When you factor using the Zero Product Rule, the solutions to the simpler

	Choice	Feedback	
*A.	True		
В.	False		

equations are also the solutions to the original equation.

The correct answer is: True.

Question 12b of 15 (1287312)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	When you factor using the Zero Product Rule, the solutions to the simpler equations are also the solutions to the original equation.

	Choice	Feedback
*A.	True	
В.	False	

The correct answer is: True.

Question 12c of 15 (1287313)

1

Maximum Attempts: Question Type: Maximum Score: Question:

True-False 2

When you factor using the Zero Product Rule, the solutions to the simpler equations are also the solutions to the original equation.

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback The correct answer is: True.

Question 13a of 15 (1120446)

Max	imum At	tempts:	1
Que	stion Ty	pe:	True-False
Max	aimum So	ore:	2
Que	stion:		The factors for $x^2 + 5x + 6$ are $x + 2$ and $x + 3$.
	Choice	Feedback	
* A	. True		
В.	False		

Global Incorrect Feedback

The correct answer is: True.

Question 13b of 15 (1287314)

Maximum Attempts: 1 **Question Type:** True-False **Maximum Score:** 2 **Question:** The factors for $x^2 + 3x + 4$ are x + 2 and x + 3.

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback

The correct answer is: False.

Question 13c of 15 (1 287315)

Maximum Attempts: 1 **Question Type:** True-False **Maximum Score:** 2 Question: The factors for $x^2 + 6x + 5$ are x + 5 and x + 1.

	Choice	Feedback
*A.	True	
В.	False	

The correct answer is: True.

Question 14a of 15 (1120447)

1

Maximum Attempts: **Question Type:** Maximum Score:

Question:

True-False 2 The factors of x^2 are x and x + 5.

	Choice	Feedback
Α.	True	
* B .	False	

Global Incorrect Feedback The correct answer is: False.

Question 14b of 15 (1287316)

Maximum Attempts:		tempts:	1	
Question Type:		be:	True-False	
	Maximum Score:		ore:	2
Question:			The factors of x^2 are x and $x + 1$.	
		Choice	Feedback	
	Α.	True		

	Choice	Feedback
Α.	True	
* B .	False	

Global Incorrect Feedback The correct answer is: False.

Question 14c of 15 (1287317)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The factors of x^2 are x and x - 5.
Chaica Eagdhack	

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback The correct answer is: False.

Question 15a of 15 (1120448)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What values of x will make the polynomial 0 if its factors are x - 3 and x - 4?

Check all that apply.

Correct Answers:

	Cho	ice	
* A .	3		
В.	-3		
C.	-4		
*D.	4		
Attempt Incorrect Feedback			
1			

1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: 3 and 4.

Question 15b of 15 (1287318)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What values of x will make the polynomial 0 if its factors are $x - 2$ and $x - 7$?
	Check all that apply.

Correct Answers:

	Choice
Α.	-2
* B .	2
*C.	7
D.	-7

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: 2 and 7.

Question 15c of 15 (1287319)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What values of x will make the polynomial 0 if its factors are $x - 6$ and $x - 3$?

Check all that apply.

Correct Answers:

	Cho	ce		
*A.	3			
В.	-3			
C.	-6			
*D.	6			
Attempt		Incorrect Feedback		
1st				

Ist		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answers are: 3 and 6.	