Essential Math 4

Unit 10 Lesson 6: Solving by Factoring

May 1, 2020

Essential Math 4
Lesson 6: May 1, 2020

Learning Target:
I can solve algebraic equations by factoring.

You will explore the use of area models to factor algebraic expressions and solve for the zeros.

Directions:

1. Click through the slides.
2. Watch all videos on slides.
3. Do what each slide asks on a separate sheet of paper.

Bell Work
May 1, 2020

Solve each equation.

(23) $6m = 0$

$m =$

(25) $(k + 8)(k - 1) = 0$

$k = \underline{\hspace{1cm}}$ or $\underline{\hspace{1cm}}$

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Bell Work **Key**
 May 1, 2020

Solve each equation.

(23) $6m = 0$

$m = 0$

(25) $(k + 8)(k - 1) = 0$

$k = \underline{-8}$ or $\underline{1}$

Practice Problems: Unit 10 Lesson 6 (page 37)

Here are a few area model puzzles.

A	x	___
x		$2x$
___	xy	$2y$

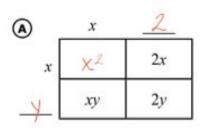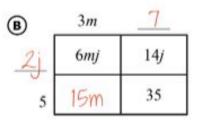| B	$3m$	___
___	$6mj$	$14j$
5		35

C	___	-5
$-a$		
___	$4a$	-20

Answer Key: Once you have completed the problems, check your answers for page 37 here.
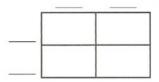
Here are a few area model puzzles.

(A)

	x	**2**
x	**x²**	2x
y	xy	2y

(B)

	3m	**7**
2j	6mj	14j
5	**15m**	35

(C)

	a	-5
-a	**-a²**	**5a**
4	4a	-20

Practice Problems: Unit 10 Lesson 6 page 37,

CREATE YOUR OWN.

INSTRUCTIONS:

① Start by choosing two factors.

(   ) (   )

② Then create an area model and multiply to find the product.

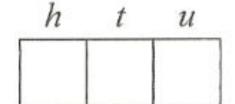③ Then copy only a few pieces of information here to make a puzzle.

Just for fun!

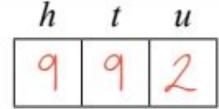Who Am I?
- $hu = 18$
- $t + h = 18$
- $h + u = 11$

h	t	u

Just for fun!
    Key

Who Am I?

- $hu = 18$
- $t + h = 18$
- $h + u = 11$

h	t	u
9	9	2

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