

Virtual Learning Essential Math 4 Unit 10

Lesson 4: Products, Sums, and Signs April 23, 2020



Essentials Math 4 Lesson 4: April 23, 2020

Learning Target: I can use an area model to factor trinomials (a=1).



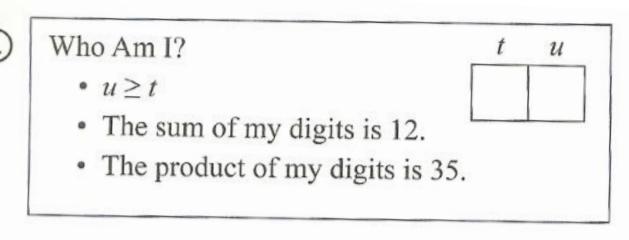
You will explore the use of area models to factor algebraic expressions.

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, April 23, 2020 Find the values for t and u that satisfy all the statements.

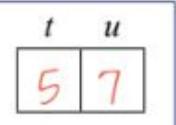




Bell Work Answer Key April 23, 2020

Who Am I?

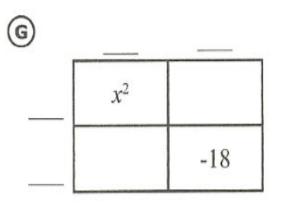
- $u \ge t$
- · The sum of my digits is 12.
- The product of my digits is 35.





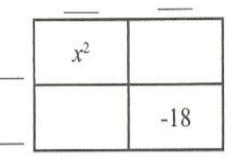
Practice Problems: Unit 10 Lesson 4, page 23, G-H. Factor using the area models.

These two problems differ in a small way, but it makes their answers different. Factor both expressions.



$$x^2 + 3x - 18 =$$





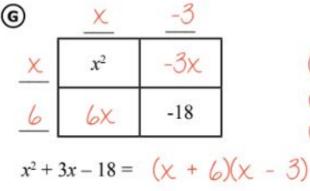
$$x^2 - 3x - 18 =$$



Answer Key:

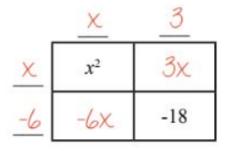
Once you have completed the problems, check your answers for page 23 here.

These two problems differ in a small way, but it makes their answers different. Factor both expressions.



(The factors can be expressed in either order.)

(H)



 $x^2 - 3x - 18 = (\chi - 6)(\chi + 3)$



Practice Problems: Unit 10 Lesson 4, page 23, I. Factor the trinomial.

Factor each expression below.

(1)
$$x^2 - 9x + 18 =$$

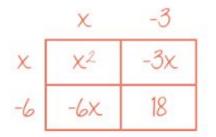


Answer Key:

Once you have completed the problems, check your answers for page 23 here.

Factor each expression below.

(1)
$$x^2 - 9x + 18 = (\chi - 3)(\chi - 6)$$



Students don't have to use a table, don't have to fill it in completely if they do, and may use a different logic to order their entries.

Factor Pairs of 18	Sum
1, 18	19
-1, -18	-19
2, 9	11
-2, -9	-11
3, 6	9
-3, -6	-9



Practice Problems: Unit 10 Lesson 4, page 23, J. Factor the trinomial.

()
$$x^2 - 6x + 9 =$$



Answer Key:

Once you have completed the problems, check your answers for page 23 here.

(1)
$$x^{2}-6x+9 = (\chi - 3)(\chi - \chi -3)(\chi - 3)(\chi - 3)($$

3

Factor Pairs of 9	Sum
-1, -9	-10
-3, -3	-6



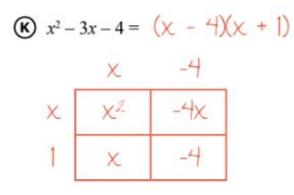
Practice Problems: Unit 10 Lesson 4, page 23, K. Factor the trinomial.

$$(k) x^2 - 3x - 4 =$$



Answer Key:

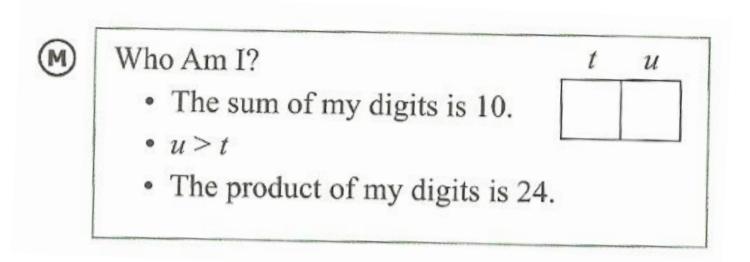
Once you have completed the problems, check your answers for page 23 here.



Sum
3
-3
0



Extra problem just for fun! Find the values of t and u that satisfy all of the statements.

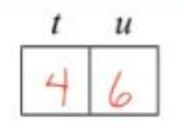




Just for fun! Key

Who Am I?

- The sum of my digits is 10.
- u > t
- The product of my digits is 24.





Resources were developed at EDC (Education Development Center, Inc). EDC owns the copyright © 2011-2019

