



Virtual Learning

Essential Math 4

Unit 10

Lesson 4: Products, Sums, and Signs

April 22, 2020



Essential Math 4

Lesson 4: April 22, 2020

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



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

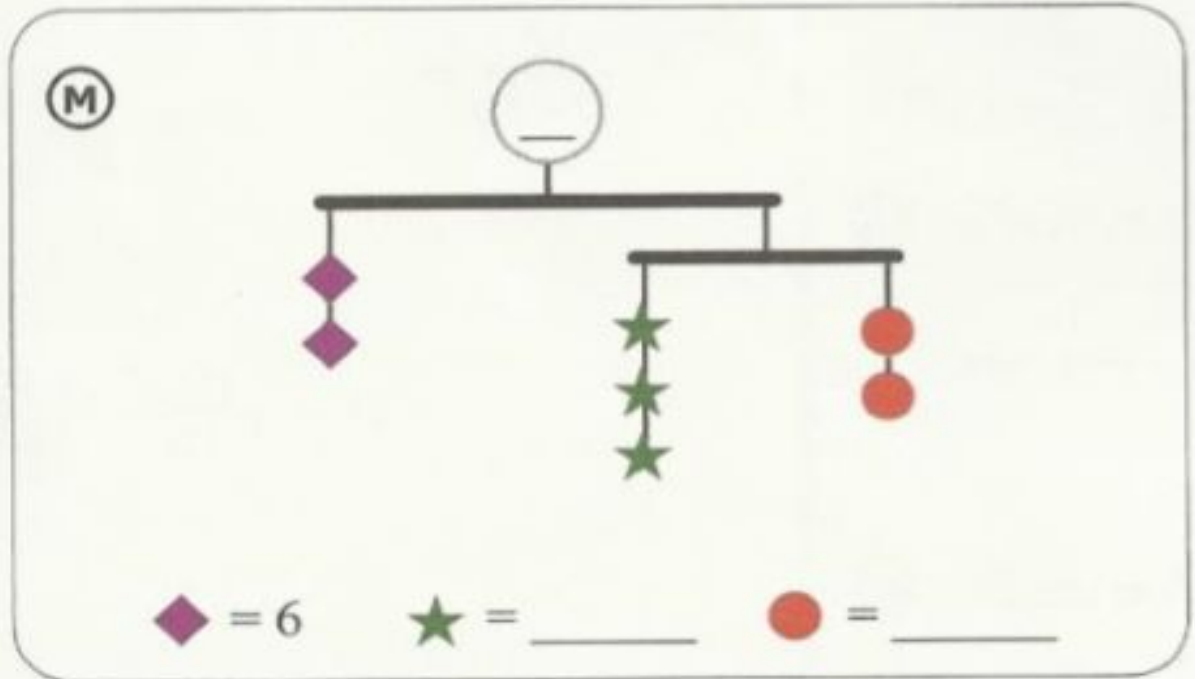
Directions:

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

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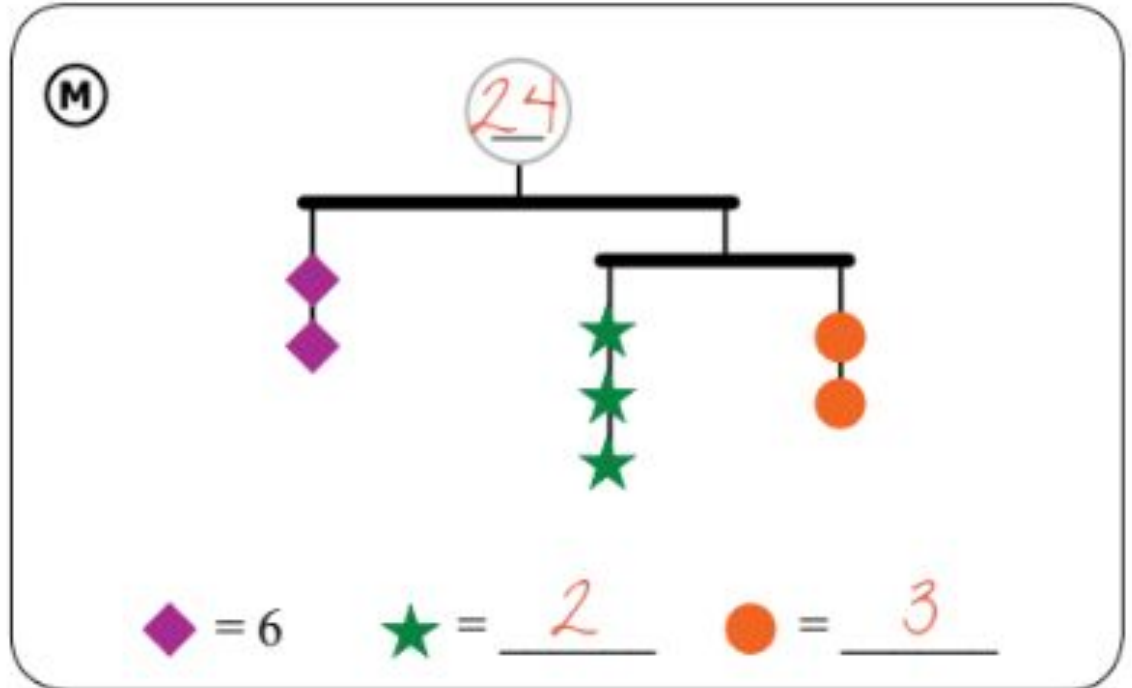
Bell Work
April 22, 2020

Find the values
for the symbols
that would make
the mobile
balance and the
total.



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Bell Work
Answer Key
April 22, 2020



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Practice Problems: Unit 10 Lesson 4, page 24. Find the values for u and t that make all the statements true.

(L)

Who Am I?

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

t	u

(M)

Who Am I?

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

t	u

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Answer Key:

Once you have completed the problems, check your answers for page 24 here.

Ⓐ

Who Am I?

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

t	u
5	7

Ⓑ

Who Am I?

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

t	u
4	6



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Practice Problems: Unit 10 Lesson 4, page 24. Factor the following trinomials.

Factor each expression.

Ⓐ $x^2 - 20x + 99 =$

Ⓑ $x^2 + 5x - 14 =$

Ⓒ $x^2 - 10x + 16 =$

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Answer Key:

Once you have completed the problems, check your answers for page 24 here.

Factor each expression.

Ⓐ $x^2 - 20x + 99 = (x - 9)(x - 11)$

	x	-9
x	x^2	$-9x$
-11	$-11x$	99

Factor Pairs of 99	Sum
$-1, -99$	-100
$-3, -33$	-36
$-9, -11$	-20

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Answer Key:

Once you have completed the problems, check your answers for page 24 here.

Ⓒ $x^2 + 5x - 14 = (x + 7)(x - 2)$

	x	7
x	x^2	$7x$
-2	$-2x$	-14

Factor Pairs of -14	Sum
$-1, 14$	13
$1, -14$	-13
$-2, 7$	5
$2, -7$	-5

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Answer Key:

Once you have completed the problems, check your answers for page 24 here.

Ⓐ $x^2 - 10x + 16 = (x - 8)(x - 2)$

	x	-8
x	x^2	$-8x$
-2	$-2x$	16

Factor Pairs of 16	Sum
$-1, -16$	-17
$-2, -8$	-10
$-4, -4$	-8



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