



Essential Math 4

Unit 10 Lesson 1 review: April 8

Learning Target:
I can use the area model to multiply algebraic expressions.

Objective: You will explore the use of area models to multiply algebraic expressions.

Directions:

1. Click through all slides.
2. Watch and follow along all videos.
3. Complete the tasks and problems for each slide on a separate sheet of paper.

Bell Work
April 8, 2020

Draw an area model for each of the following:

1. $4y(5y + 2)$

2. $(2r - 1)(3r + 4)$

Lesson:

Watch and follow along the following video.

[Multiplying monomial by binomial using the Area Model](#)

Practice:

Go to this [website](#)

1. Solve the problem on the above link.
2. Reminder: Like terms are terms that have the same variable raised to the same power. To add like terms, add their coefficients.
3. Work through the problem below:

Practice: Multiply the numbers below using an area model:

$$5x(4x + 5)$$

Practice:

Now watch this [video](#)

1. Review and solve the problem on the above link.
2. Reminder: Like terms are terms that have the same variable raised to the same power. To add like terms, add their coefficients.
3. Work through the problem and steps below:

Practice: Multiply the numbers below using an area model:

$$(3x - 1)(4x + 5)$$

Practice Problems: Unit 10 Lesson 1 page 6. Complete problems F - I.

Draw an area model and use it to answer the multiplication or division problem.

F. $3a(2a + 9) =$ _____

G. $\frac{36x+30}{6} =$ _____

H. $(p - 4)(p + 7) =$ _____

I. $\frac{5m^2+15m}{m+3} =$ _____

Answer Key: Once you have completed problems F-I, check your answers.

F. $6a^2 + 27a$

G. $6x + 5$

H. $p^2 - 3p - 28$

I. $5m$

Extra Practice Problems: Unit 10 Lesson 1 page 6. For problems a - e, use each area model to write three equations: one using multiplication and two using division.

(A)

	80
20	1600

(B)

	$4n$
$-6n$	$-24n^2$

(C)

	$7c$
$2c$	$14c^2$
3	$21c$

(D)

	$-10p$	$9a$
m	$-10pm$	$9am$

(E)

	w	9
w	w^2	$9w$
-4	$-4w$	-36