

## Essential Math 4 Unit 10 Lesson 1: April 6

## Learning Target: I can use the area model to multiply

Let's Get Started: <u>Watch Video</u>: Multiplying with the Area Model

### Bell Work April 6, 2020

# Draw an area model for each of the following: 50 4

2. 12(20 + 5)

## Practice: Go to this website: <u>Multiplying with the area model</u>

- 1. Review and solve the problem on <u>Multiplying with the area model</u>
- 2. Like terms are terms that have the same variables raised to the same powers. To add like terms, add their coefficients.
- **3.** Work through the problem and steps below

Draw an area model to fit the problem. 3x(2x + 5)

### On this and the next slide, complete the practice problems 1 - 6.

Use an area model to multiply or divide. Complete each model and equation.

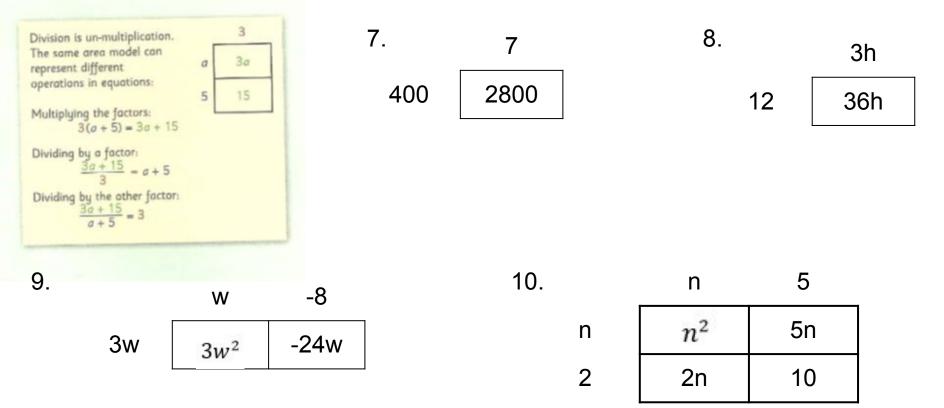
1. 
$$4(7a - 8b + 9) =$$
2.  $\frac{10c - 35}{5} =$ 

3.  $5(3p^2 + 2) =$ 
4.  $\frac{42x - 49}{7} =$ 

Finish practice problems 5 - 6.

5. 
$$(2y + 5)(y - 3) =$$
 6.  $\frac{3a^2 - 6a}{a + 2} =$   $3a^2 - 6a$ 

Write at least two equations for each area model in problems 7 - 10.



#### Answer Key:

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

Key: 28a - 32b + 36 1. 2. 2c -7 3.  $15p^2 + 10$ 6x – 7 4. 5.  $2y^2 - y - 15$ 6. 3a 7. 7(400) = 2800 or <u>2800</u> = 400 or <u>2800</u> = 7 400 7 8. 12(3h) = 36h or 36h = 3hor <u>36h</u> = 12 12 3h  $3w(w-8) = 3w^2 - 24w$ or  $3w^2 - 24w = 3w$  or  $3w^2 - 24w = w - 8$ 9. w – 8 3w 10.  $(n + 2)(n + 5) = n^2 + 11n + 10$ or  $n^2 + 11n + 10 = n + 2$  or  $n^2 + 11n + 10 = n + 5$ n + 5 n + 2