

### **Math Virtual Learning**

# HS/Essential Math II

May 14, 2020



High School/Essentials Math 2 Lesson: May 14, 2020 (U4L6)

#### **Objective/Learning Target**

Use area model thinking to apply the distributive property to multiplication problems & Translate between symbolic expressions & area models & Recognize and create equivalent expressions using properties of operations.

#### **MENTAL MATHEMATICS \* Activity 2**

Distance to 1 with decimals

0.7	
0.9	
0.3	
0.40	
0.1	

0.2	
0.50	
0.8	
0.9	
0.2	

0.7	
0.30	
0.9	
0.2	
0.1	

0.8	
0.6	
0.4	
0.3	
0.10	

#### **MENTAL MATHEMATICS \* Activity 2**

Distance to 1 with decimals

0.7	0.3
0.9	0.1
0.3	0.7
0.40	0.6
0.1	0.90

0.2	0.8
0.50	0.5
0.8	0.20
0.9	0.10
0.2	0.8

0.7	0.3
0.30	0.7
0.9	0.1
0.2	0.80
0.1	0.9

0.8	0.2
0.6	0.4
0.4	0.6
0.3	0.7
0.10	0.9

**Lesson - Important Stuff | No sign denotes a positive number.** 

$$5y - 45$$

$$5(y-9) = 5y - 45$$

$$0r 5y + -45$$

$$-j(3k+4) = \frac{-3jk - 4j}{0r - 3jk + -4j}$$

Draw an area model and use it to multiply.

$$4 \quad -m(d-7) = \frac{-md + 7m}{-7}$$

(6) 
$$(4-m)(d-7) = 4d - 28 - md + 7m$$

d

-7

How you draw the model depends on the number of terms in each factor.

$$(+)(+) = (-)(-) = (+)$$
 Same sign product is positive, ALWAYS  $(+)(-) = (-)(+) = (-)$  Different sign product is negative, ALWAYS

## Stuff to Make You Think

Match each algebraic expression with a product.

**19** 
$$3(n+21)$$

(A) 
$$3n + 63$$

**20** 
$$3(n+7)$$

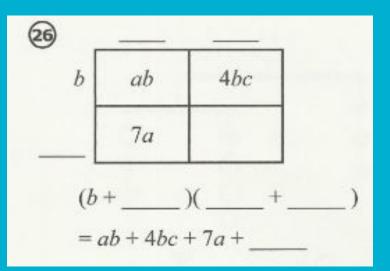
**B** 
$$3n + 21$$

(21) 
$$n(3+7)$$

(c) 
$$n^2 + 7n$$

(22) 
$$n(n+7)$$

10n



### ANSWERS Stuff to Make You Think

Match each algebraic expression with a product.

**19** 
$$3(n+21)$$

**20** 
$$3(n+7)$$
 **B**

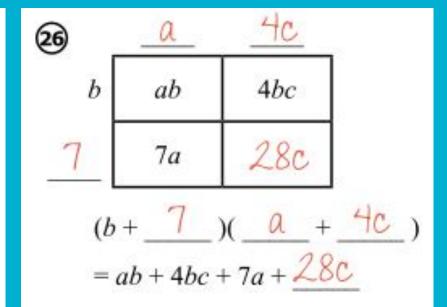
**(21)** 
$$n(3+7)$$

**22** n(n+7) **C** 

(A) 
$$3n + 63$$

**B** 
$$3n + 21$$

(c) 
$$n^2 + 7n$$

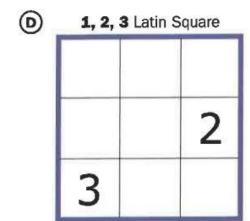


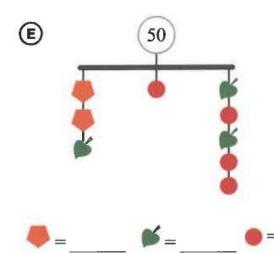
#### **Additional Practice**

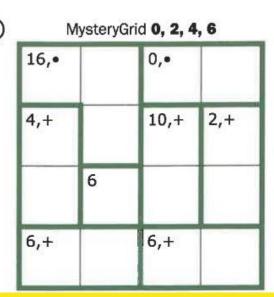
Draw an area model and use it to multiply.

$$(A)$$
 8( $m-10$ ) = \_\_\_\_\_

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$$-5(4c+8) =$$
 \_\_\_\_\_





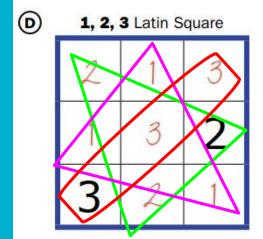


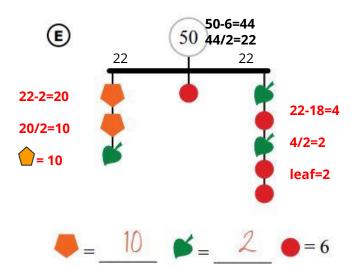
#### **Additional Practice Key**

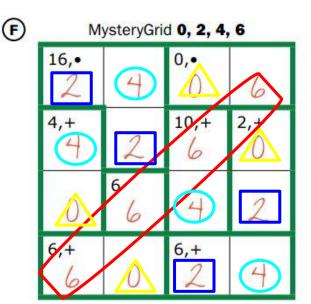
Draw an area model and use it to multiply.

$$8(m-10) = 8m - 80$$
m -10
8 8m -80

© 
$$-5(4c+8) = \frac{-20c - 40}{8}$$
  
 $-5 - 20c - 40$ 







Drow on area model and use it to multiply

Today you learned to use area model thinking to apply the distributive property to multiplication problems & Translate between symbolic expressions & area models & Recognize and create equivalent expressions using properties of operations.

For additional practice, click the link: Solve Me Mystery Grids