Objective: REVIEW

Day 1

I. Commutative and Associative Properties

A. Use the Commutative Property to rewrite each expression in order to add more efficiently. Then determine the sum.

1. 95 + 19 + 5

2. $\frac{1}{2} + \frac{3}{8} + \frac{3}{2}$

3. 0.1 + 3.93 + 2.9

4. 35 + 17 + 105

5. $\frac{3}{4} + 6\frac{1}{8} + \frac{3}{8}$

6. 5.04 + 8.35 + 1.16

B. Use the Associative Property to rewrite each expression in order to add more efficiently. Then determine the sum.

1. (29 + 17) + 13

2. (18 + 75) + 25

3. $\left(\frac{1}{2} + \frac{4}{9}\right) + \frac{5}{9}$

4. (2.2 + 1.01) + 0.99

5. 6.2 + (0.8 + 2.54)

6. $\frac{2}{5} + \left(\frac{8}{5} + \frac{1}{3}\right)$

C. Use the Commutative and Associative Properties to rewrite each expression in order to multiply more efficiently. Then determine the product.

1. $5 \times (19 \times 2)$

2. $20 \times (6 \times 2)$

3. $5 \times (18.5 \times 20)$

4. $\frac{1}{2} \times \left(\frac{13}{16} \times 2\right)$

5. $(1.25 \times 7) \times 4$

6. $\left(\frac{5}{8} \times \frac{1}{12}\right) \times 16$

D. Write an equivalent numeric expression for each using the Commutative and Associative Properties. Then determine the sum or product.

1. $7 + 6 + 3$

2. $5 \times 6 \times 4$

3. $2 \times 8 \times 3 \times 5$

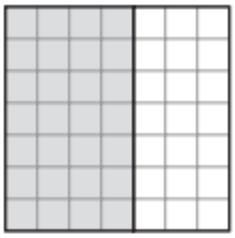
4. $9 + 4 + 11 + 16$

5. $8 \times 2 \times 8$

6. $4 + 7 + 1 + 6 + 3$

II. Exploring the Distributive Property with Numeric Expressions

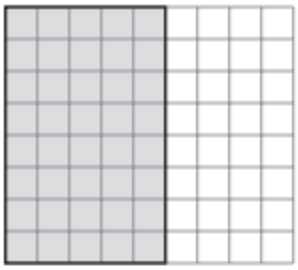
A. Complete each to represent the shading in the model.

1. 

$7 \times (4 + 3) = 7 \times \_\_\_\_ + 7 \times \_\_\_\_$

$= \_\_\_\_ + 21$

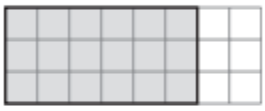
$= \_\_\_\_$

2. 

$8 \times (5 + 4) = 8 \times \_\_\_\_ + 8 \times \_\_\_\_$

$= 40 + \_\_\_\_$

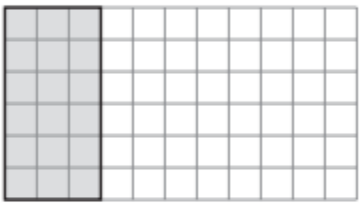
$= \_\_\_\_$

3. 

$3 \times (\_\_\_\_ + 2) = 3 \times 6 + \_\_\_\_ \times 2$

$= \_\_\_\_ + 6$

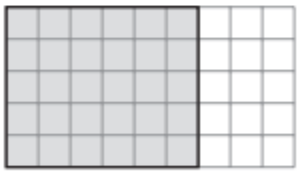
$= \_\_\_\_$

4. 

$\_\_\_\_ \times (3 + 8) = 6 \times 3 + \_\_\_\_ \times 8$

$= \_\_\_\_ + 48$

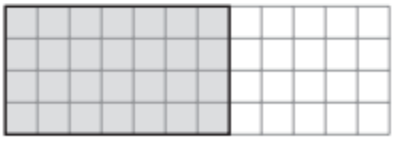
$= \_\_\_\_$

5. 

$5 \times (6 + 3) = 5 \times \_\_\_\_ + 5 \times \_\_\_\_$

$= 30 + \_\_\_\_$

$= \_\_\_\_$

6. 

$\_\_\_\_ \times (7 + 5) = 4 \times \_\_\_\_ + 4 \times 5$

$= 28 + \_\_\_\_$

$= \_\_\_\_$

B. Identify the expression that shows a correct way to decompose each.

1. 10×8

2. 9×12

3. 13×7

4. 9×8

5. 12×6

6. 13×11

a. $9(8 + 4)$

b. $13(7 + 4)$

c. $9(6 + 2)$

d. $10(7 + 1)$

e. $12(3 \times 3)$

f. $10(4 \times 4)$

g. $13(3 + 4)$

h. $12(4 + 2)$

C. Match each expression to the equivalent addition expression.

1. $35 + 28$

2. $18 + 36$

3. $121 + 22$

4. $14 + 77$

5. $27 + 12$

6. $56 + 42$

a. $7 \times (8 + 6)$

b. $7 \times (2 + 11)$

c. $11 \times (11 + 2)$

d. $6 \times (3 + 6)$

e. $3 \times (9 + 4)$

f. $7 \times (5 + 4)$

D. Complete each equation.

1. $8 \times 12 = 8 \times (\_\_\_\_ + 10)$

2. $5 \times 14 = 5 \times (10 + \_\_\_\_)$

3. $7 \times 13 = 7 \times (\_\_\_\_ + 10)$

4. $9 \times 11 = 9 \times (\_\_\_\_ + 1)$

5. $11 \times 15 = 11 \times (\_\_\_\_ + 10)$

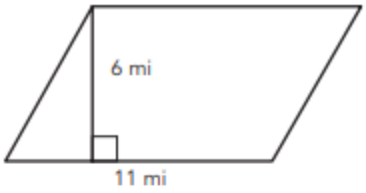
6. $12 \times 12 = 12 \times (10 + \_\_\_\_)$

III. Calculating Area of Various Figures

A. Calculate the area of each given figure.

1.

2.



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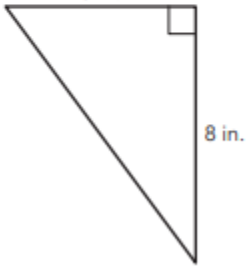
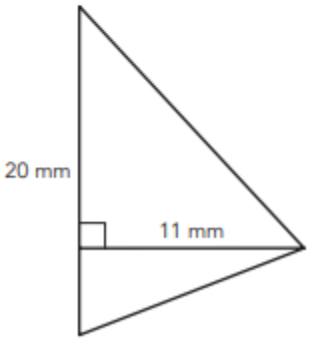
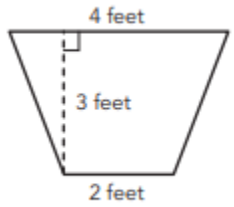


4.



5.



6.