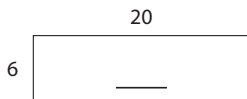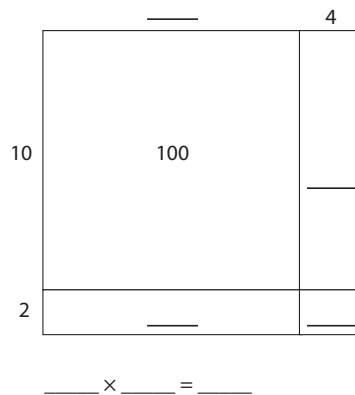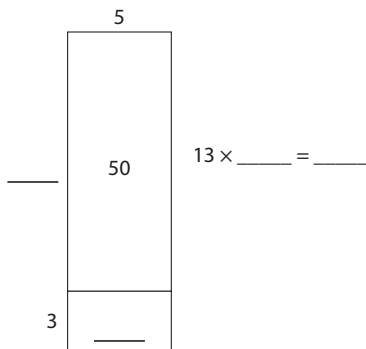# Unit 2 Post-Assessment page 1 of 4

1 Maya says there are 4 hundreds in 5,467. Jenny says there are 54 hundreds in 5,467. Their teacher says they're both right. How can that be so? Explain.

2 Fill in the blanks.

3 Fill in the blanks and complete the equations for each array.

$13 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

(continued on next page)

T12

Unit 2 Post-Assessment page 2 of 4

4 Fill in the blanks in the ratio table.

Number of Pencils	13		39			130	
Number of Students	1	2		5	9		11

5 For each of the story problems a, b, and c, show your thinking with numbers, labeled sketches, or words. Then write an equation that represents the problem and give the answer labeled with the correct units.

a Luke is six times as tall as his puppy, Farley. The puppy is 20 cm tall. How tall is Luke?

_____   _____
Equation   Answer, labeled with correct units

b Maggie is building a new pen for her sheep. The pen is 19 by 11 feet. What is the area of the pen?

_____   _____
Equation   Answer, labeled with correct units

c Last Saturday Grandma brought 17 cookies for Lauren and her 3 cousins to share. The 4 children split the cookies evenly. How many did they each get?

_____   _____
Equation   Answer, labeled with correct units

T13

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6 Every fall, Maggie's family shears the wool from the sheep to spin it into yarn. Each sheep has about 8 pounds of wool. It takes about 4 pounds of wool to make a sweater.

a If Maggie has 6 sheep, how many sweaters can she make from her sheep's wool in one year? Show all your work.

b Which equation best represents this problem? (Note: *s* stands for the number of sweaters Maggie can make.)

○ $(8 \times 6) \div 4 = s$ ○ $(8 \times 4) \div 6 = s$

○ $(8 \times 6) \times 4 = s$ ○ $(8 \times 4) \times 6 = s$

7 I have 180 toothpicks. Katie said, "You have four times as many toothpicks as I do!" Which equation could represent this situation? (Note: *k* stands for Katie's toothpicks.)

○ $4 \times 180 = k$ ○ $180 \times k = 4$

○ $180 \times 4 = k$ ○ $4 \times k = 180$

8 Which of these numbers is composite?

○ 13   ○ 37   ○ 25   ○ 11

9 Fill in the blanks.

$$\begin{array}{r} 30 \\ \times\ 7 \\ \hline \end{array} \qquad \begin{array}{r} 40 \\ \times\ \\ \hline 160 \end{array} \qquad \begin{array}{r} \\ \times\ 10 \\ \hline 290 \end{array} \qquad \begin{array}{r} 14 \\ \times\ 12 \\ \hline \end{array} \qquad \begin{array}{r} 100 \\ \times\ \\ \hline 900 \end{array}$$

(continued on next page)

T14

NAME _____ | DATE _____

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10 True or False?

a $70 \times 8 = 80 \times 7$ _____

b $19 \times 13 = (10 \times 13) + (9 \times 13)$ _____

c $5 \times 500 = (5 \times 5) + 100$ _____

d $30 \div 4 = 7$ R2 _____

11 Fill in the blanks.

$18 \times 10 = ($_____$\times 10) + (8 \times 10)$ $34 \times 20 = (30 \times 20) + ($_____$\times 20)$

12 Andre's dad made pancakes for breakfast the other day. He said that Andre and his 3 sisters could divide the 17 pancakes from the first batch equally among themselves.

a Which equation does NOT show how many pancakes each of the 4 children got?

○ $17 \div 4 = 4$ R1   ○ $17 \div 4 = \$4.25$ ○ $17 \div 4 = 4\frac{1}{4}$

b Explain your choice. Why did you choose that equation instead of one of the other two?