

Name: \_\_\_\_\_ 5th Grade Teacher: \_\_\_\_\_

**6th Grade Math Summer Assignment**

1. Dr. Mann mixed 10.357g of chemical A, 12.062g of chemical B, and 7.506g of chemical C to make 5 doses of medicine.

a. Estimate the amount of each chemical by rounding to the *nearest tenth* of a gram before finding the sum. Show all your work.

b. Find the actual amount of medicine mixed by Dr. Mann.

2. Estimate the quotient by rounding the expression to relate to a one-digit fact. Explain your thinking in the space below.

a.  $432 \div 73 \approx$  \_\_\_\_\_

b.  $1,275 \div 588 \approx$  \_\_\_\_\_

3. Sarah says that  $26 \div 8$  equals  $14 \div 4$  because both are "3 R2." Show her mistake using decimal division.

4. A rectangular playground has an area of 3,392 square meters. If the width of the rectangle is 32 meters, find the length.

5. A baker uses 5.5 pounds of flour *daily*. How many ounces of flour will he use in *two weeks*? Use words, numbers, or pictures to explain your thinking. (1 lb = 16 oz)

6. The baker pays \$0.80 per pound for sugar and \$1.25 per pound for butter. Write an expression that shows how much the baker will spend if he buys 6 pounds of butter and 20 pounds of sugar.

7. Chocolate sprinkles cost as much per pound as sugar. Find the baker's total cost for 100 pounds of chocolate sprinkles. Explain the number of zeros and the placement of the decimal in your answer.

8. Multiply or divide.

a.  $\frac{1}{3} \times \frac{1}{4}$

b.  $\frac{3}{4}$  of  $\frac{1}{3}$

c.  $\frac{3}{4} \times \frac{3}{5}$

d. 4 divided by  $\frac{1}{3}$

e. 5 divide by  $\frac{1}{4}$

f.  $\frac{1}{4}$  divided by 5

9. Multiply or divide

a.  $1.5 \times 32$

b.  $1.5 \times 0.32$

c.  $12 \div 0.03$

d.  $1.2 \div 0.3$

10. On the blank, write a division expression that matches the situation.

a. \_\_\_\_\_ Mark and Jada share 5 yards of ribbon equally. How much ribbon will each get?

b. \_\_\_\_\_ It takes half of a yard of ribbon to make a bow. How many bows can be made with 5 yards of ribbon?

11. John can paint 3 walls using 7 gallons of paint.

a. If John had 35 gallons of paint, then how many walls can he paint?

b. If John finished 21 walls, then how many gallons of paint did he use?