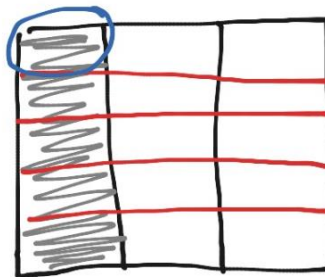


Writing Word Problems:

Dividing a Unit Fraction by a Whole Number

After a birthday party, $\frac{1}{3}$ of a large cake was left. If this leftover cake was shared equally among the 5 people, what fraction of the whole cake did each person receive?

$$\frac{1}{3} \div 5 = \frac{1}{15}$$



Writing Word Problems: Dividing a Unit Fraction by a Whole Number

Materials:

- Recording sheet or math journal
- Cuisenaire rods and other fraction manipulatives

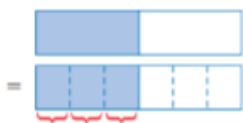
Directions:

1) Write a story context to illustrate the following problems.

$$\text{a) } \frac{1}{2} \div 4 \quad \text{b) } \frac{1}{3} \div 5 \quad \text{c) } \frac{1}{3} \div 4 \quad \text{d) } \frac{1}{2} \div 5$$

- 2) Determine each quotient using a diagram. Show and explain your work.
3) Use the relationship between multiplication and division to check your work.

Example: $\frac{1}{2} \div 3$ A jug of water is $\frac{1}{2}$ full. If 3 children equally share the water, what fraction of the full jug does each child get?



To solve this problem I drew a rectangle and shaded $\frac{1}{2}$. I drew a congruent rectangle and divided each half into 3 equal pieces. I shaded $\frac{3}{6}$ of this rectangle to represent the 3 children. Each child will get one shaded piece or $\frac{1}{6}$ of the full jug of water.

$$\frac{1}{2} \div 3 = \frac{1}{6} \quad \text{or} \quad \frac{1}{6} \times 3 = \frac{1}{2}$$

Name _____

Date _____

Writing Word Problems: Dividing a Unit Fraction by a Whole Number

Write a story context to illustrate the following problems. Determine each quotient using a diagram. Show and explain your work. Use the relationship between multiplication and division to check your work.

$$\frac{1}{2} \div 4$$
$$\frac{1}{3} \div 5$$
$$\frac{1}{3} \div 4$$
$$\frac{1}{2} \div 5$$

Graphics and Fonts

