

Name \_\_\_\_\_

Date \_\_\_\_\_

**Word Problems with Fraction Division - Guided Lesson Explanation****Explanation#1**

Step 1) First we look to see what is being asked of us.

Step 2)  $\frac{3}{4}$  of an inch divided between 6 people.

$$\frac{3}{4} \div 6$$

Write 6 as an improper fraction:

$$6 = \frac{6}{1}$$

Step 3) Turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

$$\frac{3}{4} \div \frac{6}{1} = \frac{3}{4} \times \frac{1}{6}$$

Cancel common factors, and then multiply.

$$\frac{3}{4} \times \frac{1}{6} = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$

The pizza will cut into  $\frac{1}{8}$  inch pieces.

**Explanation#2**

Step 1) First we look to see what is being asked of us.

Step 2) Divide the total people by the size of the bag of marbles.

$$\frac{2}{5} \div 7$$

Write 7 as an improper fraction:

$$7 = \frac{7}{1}$$



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Step 3) Turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

$$\frac{2}{5} \div \frac{7}{1} = \frac{2}{5} \times \frac{1}{7}$$

$$\frac{2}{5} \times \frac{1}{7} = \frac{2}{35}$$

They would each receive  $\frac{2}{35}$  of the marble bag.

### Explanation#3

Step 1) First, we look to see what is being asked of us.

Step 2) Divide the total number of filing cabinets by the size of the receipt pile.

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

Write 4 as an improper fraction:

$$4 = \frac{4}{1}$$

Step 3) Turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

$$\frac{3}{5} \div \frac{4}{1} = \frac{3}{5} \times \frac{1}{4}$$

$$\frac{3}{5} \times \frac{1}{4} = \frac{3}{20}$$

There are  $\frac{3}{20}$  of a yard of receipts in each filing cabinet.

