## Division of Whole Numbers By Fractions Word Problems Fraction - Guided Lesson Explanation

**Explanation#1**

Step 1) Gordon distributed the cold drinks among 6 friends: That means each friend got $\frac{1}{6}$ of the total number drinks.

Therefore, by dividing the number of cold drinks each friend got by their fraction, we get the total number of cold drinks.

$$12 \div \frac{1}{6}$$

Step 2) Turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

$$12 \div \frac{1}{6} = 12 \times \frac{6}{1}$$

Then, multiply

$$12 \times \frac{6}{1} = 72 \text{ cold drinks}$$
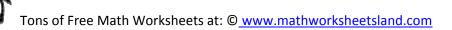
There are a total of 72 cold drinks.

**Explanation#2**

Step 1) Daniels distributed the rice among 8 people: That means that each person got $\frac{1}{8}$ of the total amount rice.

Therefore, by dividing the amount of rice each person got by their fraction, we will get the total amount of rice.

$$16 \div \frac{1}{8}$$

Step 2) Turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

$$16 \div \frac{1}{8} = 16 \times \frac{8}{1}$$

Then, multiply

$$16 \times \frac{8}{1} = 128 \text{ grams of rice}$$

There was a total of 128 grams of rice.

## Explanation#3

Step 1) Rose distributed the balls among 6 people: That means that each child got $\frac{1}{6}$ of the total number of balls.

Therefore, by dividing the number of balls each friend got by their fraction, we get the total number of balls.

$$3 \div \frac{1}{6}$$

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

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

Then, multiply

$$3 \times \frac{6}{1} = 18 \text{ balls}$$

There are a total of 18 balls.