Name _____ Date_____

Interpreting Division of a Whole Number by a Fraction—Visual Models

Solve each division problem using a model.

1. Henry bought 4 pies which he plans to share with a group of his friends. If there is exactly enough to give each member of the group one-sixth of the pie, how many people are in the group?

2. Rachel completed $\frac{3}{4}$ of her cleaning in 6 hours. How many total hours will Rachel spend cleaning?

Rewrite each problem as a multiplication question. Model your answer.

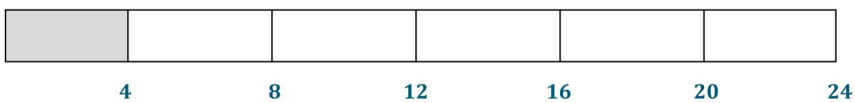
1. Nicole has used 6 feet of ribbon. This represents $\frac{3}{8}$ of the total amount of ribbon she started with. How much ribbon did Nicole have at the start?

2. How many quarter hours are in 5 hours?

Solve each division problem using a model.

1. **Henry bought 4 pies which he plans to share with a group of his friends. If there is exactly enough to give each member of the group one-sixth of the pie, how many people are in the group?**

   $4 \div \frac{1}{6}$ $\frac{1}{6}$ *of what is 4?*

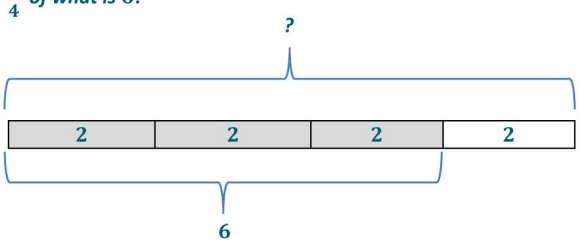


   24 people are in the group.

2. **Rachel completed $\frac{3}{4}$ of her cleaning in 6 hours. How many total hours will Rachel spend cleaning?**

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

   $\frac{3}{4}$ *of what is 6?*



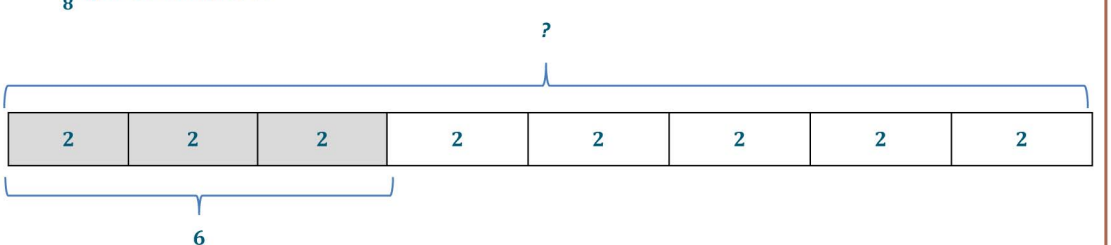
   Rachel will spend 8 total hours cleaning.

Rewrite each problem as a multiplication question. Model your answer.

1. **Nicole has used 6 feet of ribbon. This represents $\frac{3}{8}$ of the total amount of ribbon she started with. How much ribbon did Nicole have at the start?**

   $6 \div \frac{3}{8}$

   $\frac{3}{8}$ *of what number is 6?*



   Nicole started with 16 feet of ribbon.

2. How many quarter hours are in 5 hours?

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

$\frac{1}{4}$ of what is 5?

5	5	5	5

There are 20 quarter hours in 5 hours.