

Unit Rates and Ratios of Fractions - Guided Lesson Explanation**Explanation#1**

Step 1) Divide the total minutes (1/2) by the amount of eaten banana (1/4)

$$\frac{1}{2} \div \frac{1}{4} =$$

We will write 1/4 as an improper fraction.

Now turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

$$\frac{1}{2} \div \frac{1}{4} = \frac{1}{2} \times \frac{4}{1}$$

Now we will multiply:

$$= \frac{1 \times 4}{2 \times 1} = \frac{4}{2} = 2$$

So the answer is: 2 minutes

Explanation#2

Step 1) Divide the total miles run (1/2) by the amount of time (1/7 hours).

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

We will write 1/7 as an improper fraction.

Change this from a division problem into a multiplication problem by multiplying by the reciprocal.

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

Now we will multiply:

$$= \frac{1 \times 7}{2 \times 1} = \frac{7}{2} \text{ miles per hour} = 3.5 \text{ miles per hour}$$



Name _____

Date _____

Explanation#3

Step 1) Divide the total amount of cookies (1/5 of a batch) made by the amount of time (1/10 of an hour) it takes.

$$\frac{1}{5} \div \frac{1}{10} =$$

Change this division problem into a multiplication problem.

$$\frac{1}{5} \div \frac{1}{10} = \frac{1}{5} \times \frac{10}{1}$$

Now we will multiply:

$$= \frac{1 \times 10}{5 \times 1} = \frac{10}{5} = 2$$

Answer is: 2 full batches of cookies

