

Name: Class:

Divide unit fractions and whole numbers: word problems.

- a. Peter eats $\frac{2}{4}$ of a cup of honey flakes everyday. If the box of honey flakes contains a total of 24 cups, how many days will Peter take to finish the box of honey flakes?



- b. Mrs. James is making cookies. Each batch of cookie mixed requires $\frac{2}{3}$ of a cup of milk. According to the instructions given, the batch can make 15 medium sized cookies and 20 small sized cookies. If Mrs. James makes a batch of small size cookies, what quantity of milk is used for each cookie?



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- a. Peter eats $\frac{2}{4}$ of a cup of honey flakes everyday. If the box of honey flakes contains a total of 24 cups, how many days will Peter take to finish the box of honey flakes?

Quantity of honey flakes Peter eats = $\frac{2}{4}$ cup

Total quantity of honey flakes in the box = 24 cups

Let's divide 24 by $\frac{2}{4}$ to find the number of days peter will take to finish the honey flakes.

$$24 \div \frac{2}{4}$$

Write the whole number as a fraction.

$\frac{24}{1} \div \frac{2}{4}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.

$$\frac{24}{1} \times \frac{4}{2} = \frac{24 \times 4}{2} = 48$$

So, Peter will take 48 days to finish the box of honey flakes



- b. Mrs. James is making cookies. Each batch of cookie mixed requires $\frac{2}{3}$ of a cup of milk. According to the instructions given, the batch can make 15 medium sized cookies and 20 small sized cookies. If Mrs. James makes a batch of small size cookies, what quantity of milk is used for each cookie?

Each batch of cookie mixed requires $\frac{2}{3}$ of a cup of milk.

Mrs. James makes a batch of 20 small sized cookies. So, let's divide $\frac{2}{3}$ by 20 to find how much milk was used for each cookie.

$$\frac{2}{3} \div 20$$

Write the whole number as a fraction.

$\frac{2}{3} \div \frac{20}{1}$ Find the reciprocal of the second fraction
and change the division sign to multiplication sign.

$$\frac{2}{3} \times \frac{1}{20} = \frac{2}{60} = \frac{1}{30}$$

$$\text{So, } \frac{2}{3} \div 20 = \frac{1}{30}$$

So, Mrs. James used $\frac{1}{30}$ of a cup of milk for each cookie.

