

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?
- c. Yesterday, Peter brought 50 boxes of vegetable oil to be distributed at a family reunion. He gave each person  $\frac{1}{2}$  a box of vegetable oil. How many people were at the family reunion?
- d. The children's playground is opened every day for 9 hours during the day. There are 5 cleaners and they clean the playground on shifts. If each shift is  $\frac{1}{4}$  hours, how many shifts are there per day?
- e. Clovis is a baker and he just got a very big contract to supply cakes to various bakeries in the city. He has 15 cups of flour. This is just  $\frac{3}{4}$  of the number of cups he needs to bake the cakes. How many cups does he need?
- f. Jude has 30 marbles. He intends to give each of the kids in kindergarten some of his marbles so that they can play with it. If each kid received  $\frac{2}{3}$  of this marbles, how many kids are in the kindergarten?
- g. I have a piece of cloth that is 21 yards in length. I want to divide the piece of cloth evenly into  $\frac{3}{4}$  yards. How many pieces will I be able to divide the cloth into?
- h. Sharon has  $\frac{1}{3}$  litres of lemonade that she intends to share it evenly into 6 containers equally for her visitors. How much lemonade will be in each glass?
- i. Janice has a stick that is 144 inches in length. If he cut the stick into pieces measuring  $\frac{1}{2}$  of an inch, how many pieces will he have?

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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. So, Mrs. James used  $\frac{2}{3}$  of a cup of milk for each cookie.
- c. So, there were 100 people at the reunion.
- d. So, there are  $2 \frac{1}{4}$  shifts per day.
- e. So, he needs  $11 \frac{1}{4}$  cups of flour.
- f. So, there are 45 kids in the kindergarten.
- g. So, I will be able to divide the piece of cloth into 28 pieces of length.
- h. So, each container will take  $\frac{1}{18}$  litres of wine.
- i. So, he will have 64 pieces of stick.