

Name: _____

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Date: _____

12-7-20

Worksheet 7 Real-World Problems: Multiplying and Dividing with Fractions

Solve. Use models to help you.

1. There are 144 pieces of fruit in a box. Of the fruit in the box, $\frac{1}{8}$ are red apples and $\frac{1}{4}$ are green apples. The rest are oranges.

a. How many oranges are there altogether?

$$\frac{1}{8} = 18 \quad \frac{2}{8} = 36 \quad \frac{8}{8} - \frac{3}{8} = \frac{5}{8}$$

$$\frac{2}{8} + \frac{1}{8} = \frac{3}{8} \quad \frac{1}{4} = \text{red apples}$$

$$\frac{3}{8} = 54 \quad \frac{1}{4} \times 2 = \frac{2}{8} \text{ green apples}$$

b. What fraction of the fruit are oranges?

there are 90 oranges altogether

$\frac{5}{8}$ the fraction of the fruit are oranges are $\frac{5}{8}$

2. A bakery had 54 rolls. Of the rolls that the bakery had, $\frac{1}{6}$ were sold in the morning and $\frac{1}{2}$ were sold in the evening.

a. How many rolls were sold altogether?

$$9 \times 4 = 36 \quad \frac{1}{2} = \frac{3}{6} + \frac{1}{6} = \frac{4}{6}$$

36 rolls were sold altogether

b. How many rolls were not sold?

18 rolls were not sold

$$\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$$

$$54 - 36 = 18$$

rolls not sold

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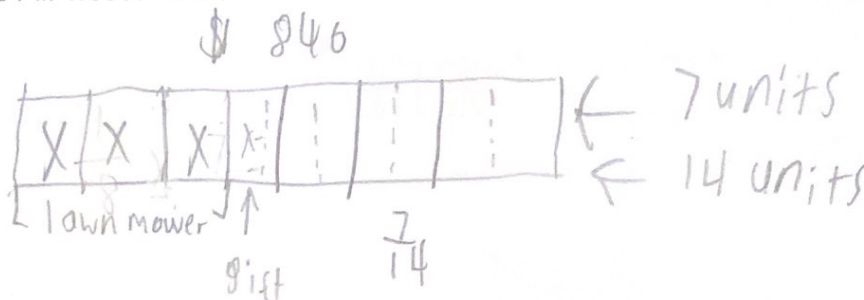
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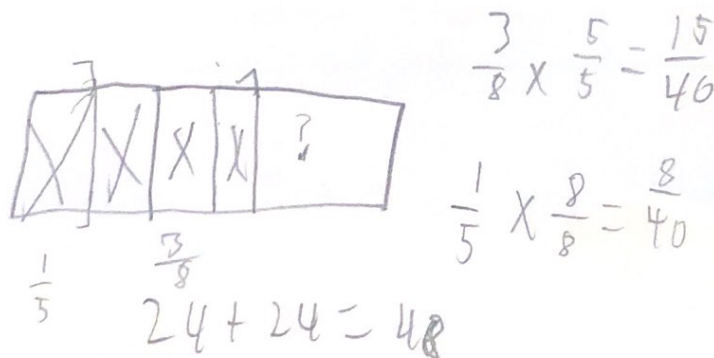
Solve. Use models to help you.

3. Mr. Woods had \$840. He spent $\frac{3}{7}$ of the money on a lawn mower. He spent $\frac{1}{8}$ of the remaining money on a gift for his wife. How much money did Mr. Woods have left?



Mr. Woods
has \$420 left. $840 \div 2 = 420$

4. Rebecca had a piece of ribbon. She used $\frac{3}{8}$ of it to tie a package. She used $\frac{1}{5}$ of the remainder for a bookmark. Rebecca had 24 centimeters of ribbon left. What was the length of ribbon Rebecca had at first?



Rebecca had 48 centimeters
of ribbon at first.

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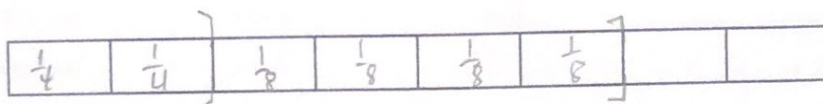
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Complete each model to show the statements.

5.

A liter of milk is divided among 2 adults and 4 children. Each adult drinks $\frac{1}{4}$ liter and each child drinks $\frac{1}{8}$ liter.

$$\frac{1}{8} \times 4 = \frac{4}{8} = \frac{1}{2}$$



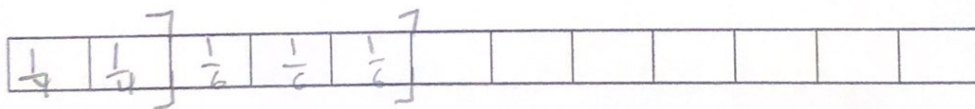
$$\frac{1}{4} \times 2 = \frac{2}{4} = \frac{1}{2}$$

$$\frac{1}{2} + \frac{1}{2} = 1$$

6.

A pizza is divided and given to 3 boys and 2 girls. Each boy gets $\frac{1}{6}$ of a pizza and each girl gets $\frac{1}{4}$ of a pizza.

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



$$\frac{1}{6} \times 3 = \frac{3}{6} = \frac{1}{2}$$

$$\frac{1}{2} + \frac{1}{2} = 1$$

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Solve. Show your work.

1 melon 6 pieces $\frac{1}{6}$

7. James has 5 melons. Two of them are shared among 10 students.

What fraction of a melon will each student get? Each student will get $\frac{1}{5}$.

The remaining melons are then divided into $\frac{1}{3}$ each. These pieces are shared

equally among the students. How many students do not get a piece of these

melons? 1 student does not get a piece of these melons.

How much of a melon will each student get in total?

Every student will get two pieces except
1 student who will get 1 piece in total.