-1 10/11 Better!

Name: L02 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.

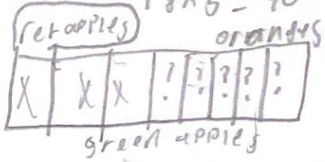
a. How many oranges are there altogether?

$\frac{1}{8} = 18$ $\frac{2}{8} = 36$

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

$\frac{8}{8} - \frac{3}{8} = \frac{5}{8}$

$\frac{5}{8}$ = oranges $18 \times 5 = 90$



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

There are 90 oranges altogether

b. What fraction of the fruit are oranges?

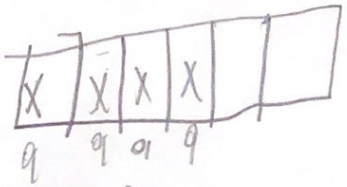
$\frac{5}{8}$ the fraction of the fruit are oranges are $\frac{5}{8}$.

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?

$54 \div 6 = 9$

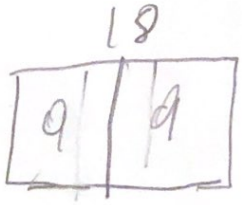
$9 \times 4 = 36$ $\frac{1}{2} = \frac{3}{6} + \frac{1}{6} = \frac{4}{6}$



36 rolls were sold altogether 27

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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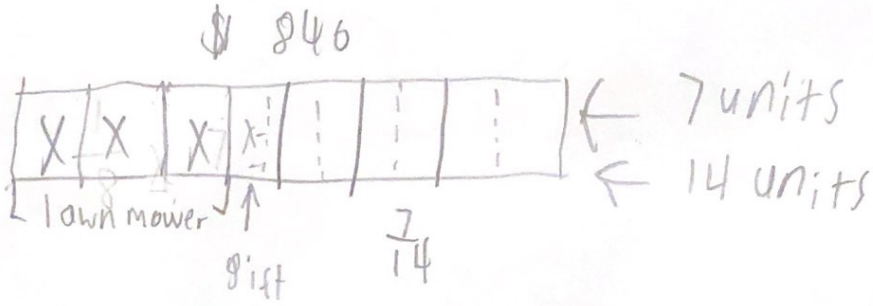
Solve. Use models to help you.

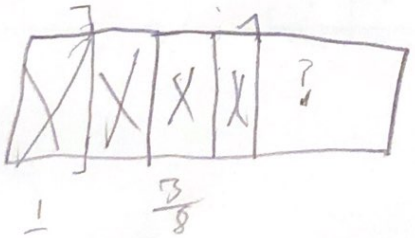
3. Mr. Woods had $840. He spent $\frac{3}{7}$ of the money on a lawn mower. He spent $\frac{1}{8}$ of the remaining money on a gift for his wife. How much money did Mr. Woods have left?



Mr. woods has $420 left.

840 ÷ 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?



$\frac{3}{8} \times \frac{5}{5} = \frac{15}{40}$

$\frac{1}{5} \times \frac{8}{8} = \frac{8}{40}$

24 + 24 = 48

Rebecca had 48 centimeters of ribbon at first.

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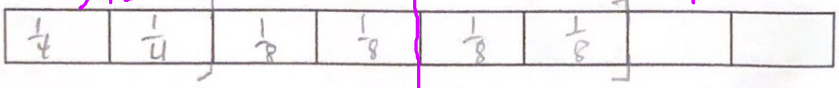
Complete each model to show the statements.

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.

ok



Adults 2

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

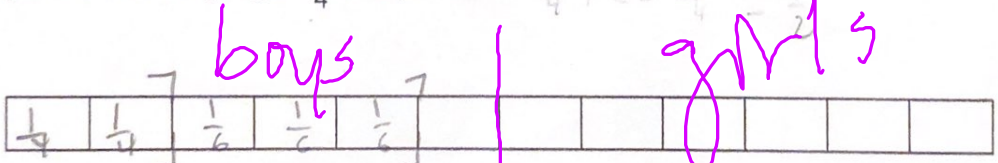
$\frac{4}{4} + \frac{1}{4} = \frac{2}{4}$

4 Children

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

0/2

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.



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

2 girls

$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{1}{2}$

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

$\frac{1}{4} + \frac{1}{4} =$

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

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

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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?

-1

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

$$\frac{1}{5} = \frac{3}{15}$$

$$+\ \frac{1}{3} = \frac{5}{15}$$

$$\frac{8}{15}$$

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