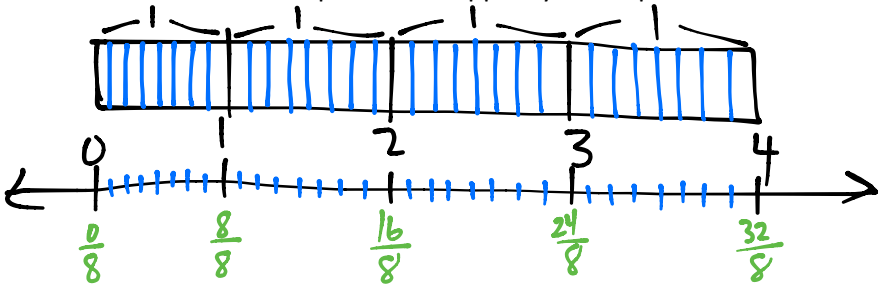
NOTE: Each problem can be solved in a variety of ways. Here we only show one of the many possible ways.

Name _____ Date _____

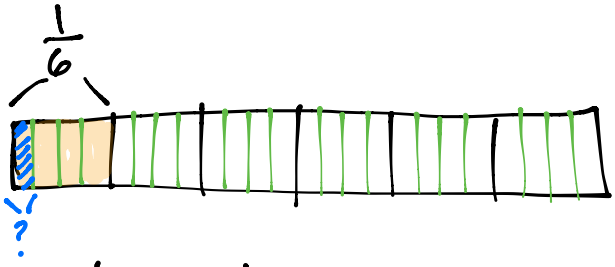
1. Kelvin ordered four pizzas for a birthday party. The pizzas were cut in eighths. How many slices were there? Draw a picture to support your response.




$4 \div \frac{1}{8} = 4 \times 8 = 32$

There are 32 slices.

2. Virgil has $\frac{1}{6}$ of a birthday cake left over. He wants to share the leftover cake with three friends. What fraction of the original cake will each of the 4 people receive? Draw a picture to support your response.

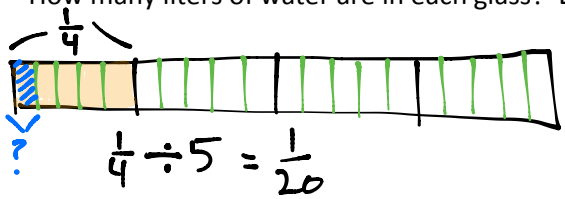



$\frac{1}{6} \div 4 = \frac{1}{24}$

$\frac{1}{6} \div 4$
= 4 twenty-fourths $\div$ 4
= 1 twenty-fourth

Each person will get $\frac{1}{24}$ of the original cake.

3. A pitcher of water contains $\frac{1}{4}$ L water. The water is poured equally into 5 glasses.
   a. How many liters of water are in each glass? Draw a picture to support your response.




$\frac{1}{4} \div 5 = \frac{1}{20}$

Each glass will have $\frac{1}{20}$ liter.

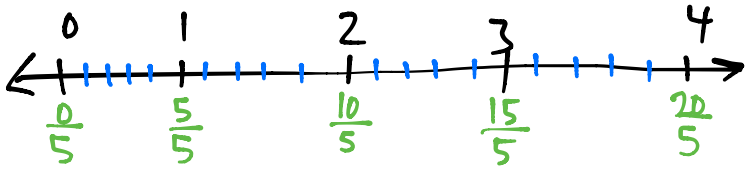
   b. Write the amount of water in each glass in milliliters.

$\frac{1}{20}$ liter $= \frac{1}{20} \times 1$ liter
$= \frac{1}{20} \times 1000$ milliliters
$= \frac{1 \times 1000}{20}$ milliliters
$= 50$ milliliters

$\frac{1}{20}$ liter = 50 milliliters

50 mL

4. Drew has 4 pieces of rope 1 meter long each. He cuts each rope into fifths.
   a. How many fifths will he have after cutting all the ropes?




$4 \div \frac{1}{5} = 4 \times 5 = 20$

Drew will have 20 fifths.

   b. How long will each of the fifths be in centimeters?

$\frac{1}{5}m = \frac{1}{5} \times 1m$

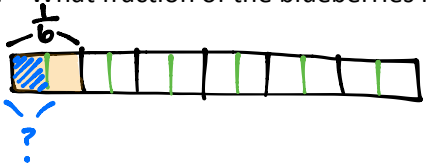
$= \frac{1}{5} \times 100\ cm$

$= \frac{1 \times 100}{5}\ cm$

$= 20\ cm$

$\frac{1}{5}m = 20\ cm$

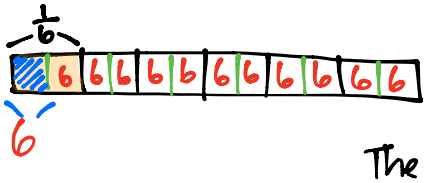
5. A container is filled with blueberries. $\frac{1}{6}$ of the blueberries are poured equally into two bowls.
   a. What fraction of the blueberries is in each bowl?




$\frac{1}{6} \div 2 = \frac{1}{12}$

Each bowl will have $\frac{1}{12}$ of the blueberries.

   b. If each bowl has 6 ounces of blueberries in it, how many ounces of blueberries were in the full container?



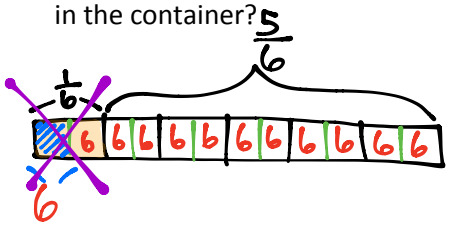

$\frac{1}{12} = 1\ unit = 6\ ounces$

$\frac{12}{12} = 12\ units = 72\ ounces$

$12 \times 6 = 72$

The full container had 72 ounces.

   c. If $\frac{1}{5}$ of the remaining blueberries are used to make muffins, how many pounds of blueberries are left in the container?




$\frac{1}{5}$ of $\frac{5}{6} = \frac{1}{5} \times \frac{5}{6} = \frac{1 \times 5}{5 \times 6} = \frac{1}{6}$

$\frac{1}{6}$ of the blue berries are used for muffins.

$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$

$\frac{4}{6}$ of the blue berries are left.

$\frac{4}{6}$ of $72 = \frac{4}{6} \times 72 = \frac{4 \times 72}{6} = 48\ oz = 3\ pounds$