Name _____   Date _____

1. Find the value of each of the following.

   a.

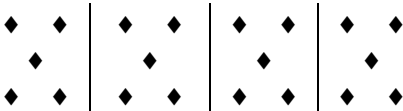 $\begin{array}{ccc} \bullet\ \bullet & \bullet\ \bullet & \bullet\ \bullet \\ \bullet\ \bullet & \bullet\ \bullet & \bullet\ \bullet \end{array}$
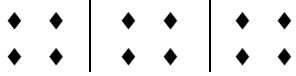
   $\frac{1}{3}$ of 12 = **4**

   $\frac{2}{3}$ of 12 = **8**

   $\frac{3}{3}$ of 12 = **12**

   b.

   $\frac{1}{4}$ of 20 = **5** $\frac{3}{4}$ of 20 = **15**

   $\frac{2}{4}$ of 20 = **10** $\frac{4}{4}$ of 20 = **20**

   c.
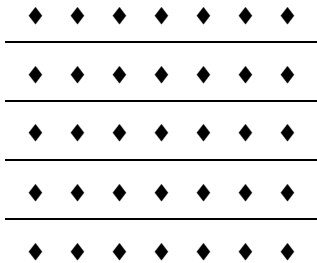
   $\frac{1}{5}$ of 35 = **7** $\frac{3}{5}$ of 35 = **21** $\frac{5}{5}$ of 35 = **35**

   $\frac{2}{5}$ of 35 = **14** $\frac{4}{5}$ of 35 = **28** $\frac{6}{5}$ of 35 = **42**

COMMON CORE | Lesson 6: | Relate fractions as division to fraction of a set.
Date: | 11/10/13
engage^ny | 4.C.15

2. Find $\frac{2}{3}$ of 18. Draw a set and shade to show your thinking.

$\frac{2}{3}$ is 12 dots

3. How does knowing $\frac{1}{5}$ of 10 help you find $\frac{3}{5}$ of 10? Draw a picture to explain your thinking.

Take the answer for $\frac{1}{5}$ and multiply by 3 to find the answer for $\frac{3}{5}$.
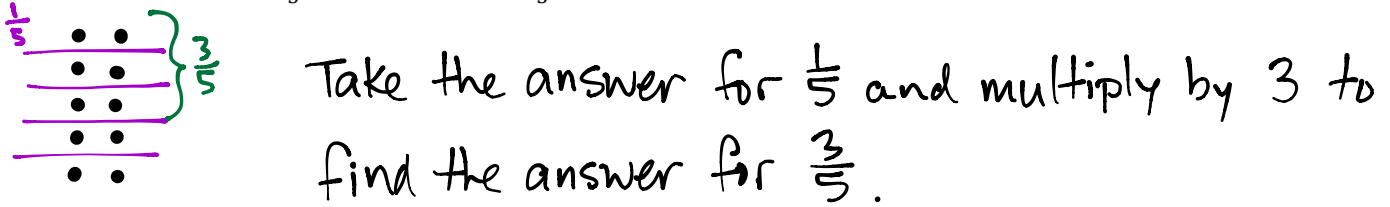
4. Sara just turned 18 years old. She spent $\frac{4}{9}$ of her life living in Rochester, NY. For how many years did Sara live in Rochester?

$\frac{4}{9}$ of 18 is 8, so Sara lived in Rochester for 8 years.
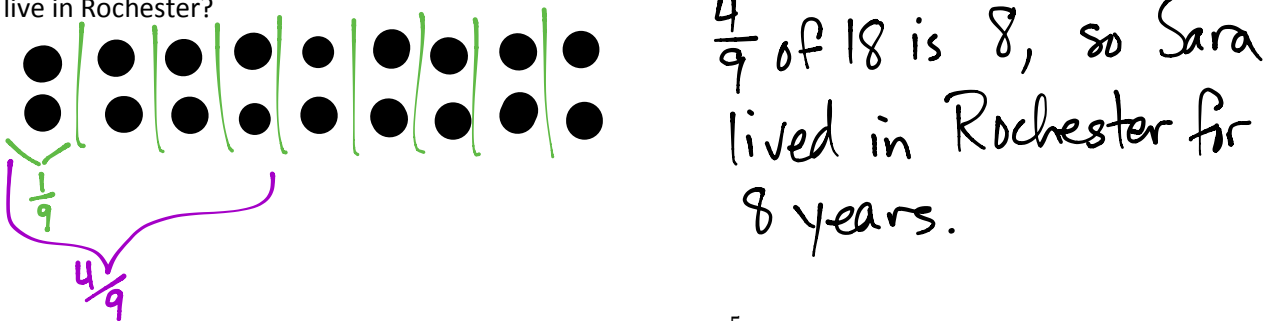
5. A farmer collects 12 dozen eggs from her chickens. She sells $\frac{5}{6}$ of the eggs at the farmers' market and gives the rest to friends and neighbors.

   a. How many eggs does she give away?
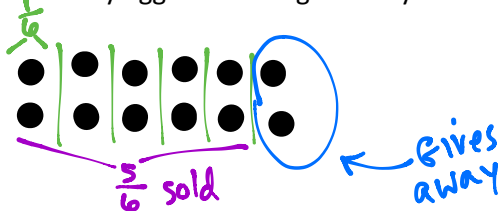
Each dot represents a dozen eggs.

$2 \times 12 = 24$

She gives away 24 eggs.

   b. If she sells each dozen for $4.50, how much will she earn from the eggs she sells?

$10 \times 4.50 = 45$ She will earn $45.