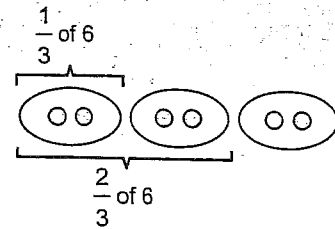


# NS7-22 Fractions of Whole Numbers

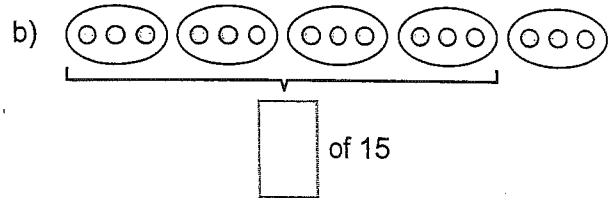
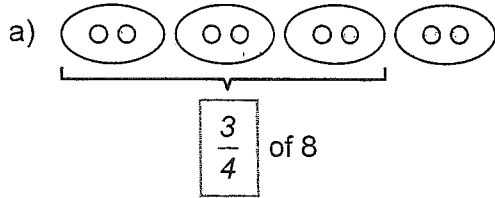
There are 3 equal groups of dots, so each group is  $\frac{1}{3}$  of 6.

There are 2 dots in each group, so  $\frac{1}{3}$  of 6 is 2.

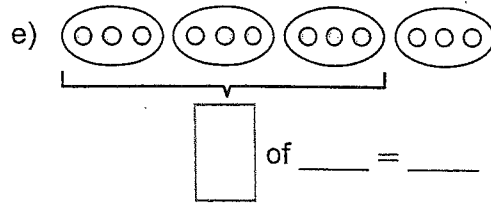
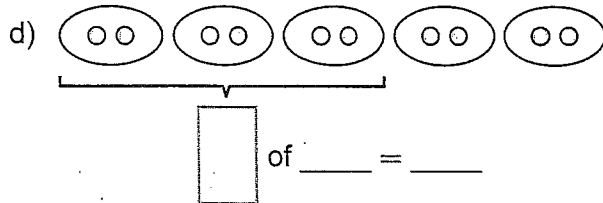
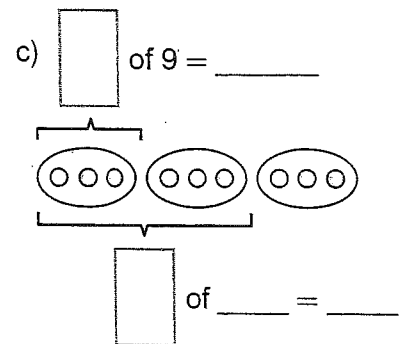
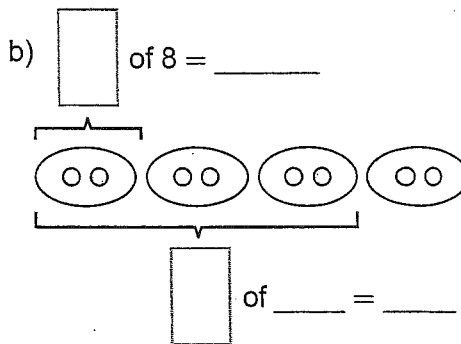
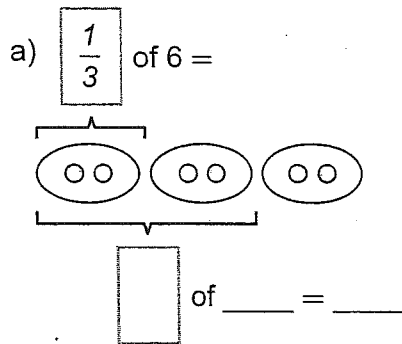
There are 4 dots in two groups, so  $\frac{2}{3}$  of 6 is 4.



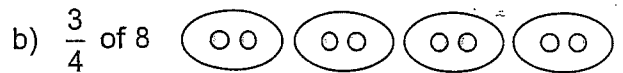
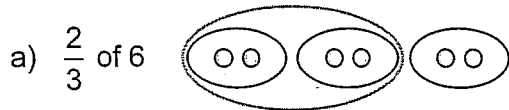
1. Write a fraction for the amount of dots shown.



2. Fill in the missing numbers.



3. Draw a circle to show the given amount.



4. Draw the correct number of dots in each circle, then draw a larger circle to show the given amount.



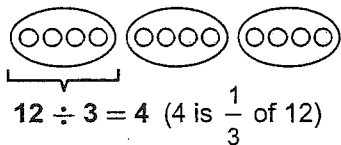
5. Find the fraction of the whole amount by drawing the correct number of circles and then filling in the correct number of dots in each circle.

a)  $\frac{2}{3}$  of 9 is \_\_\_\_\_.

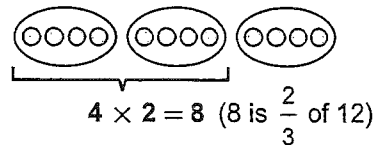
b)  $\frac{3}{5}$  of 10 is \_\_\_\_\_.

6. This is how Andy finds  $\frac{2}{3}$  of 12.

**Step 1:** He finds  $\frac{1}{3}$  of 12 by dividing 12 by 3.



**Step 3:** Then he multiplies the result by 2.



Find the following amounts using Andy's method.

a)  $\frac{1}{3}$  of 9 = \_\_\_\_ So  $\frac{2}{3}$  of 9 = \_\_\_\_

b)  $\frac{1}{4}$  of 8 = \_\_\_\_ So  $\frac{3}{4}$  of 8 = \_\_\_\_

c)  $\frac{1}{3}$  of 15 = \_\_\_\_ So  $\frac{2}{3}$  of 15 = \_\_\_\_

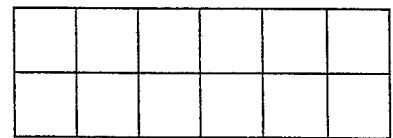
d)  $\frac{1}{5}$  of 25 = \_\_\_\_ So  $\frac{3}{5}$  of 25 = \_\_\_\_

e)  $\frac{1}{3}$  of 27 = \_\_\_\_ So  $\frac{2}{3}$  of 27 = \_\_\_\_

7. 20 students are on a bus.  $\frac{3}{5}$  are boys. How many boys are on the bus? \_\_\_\_\_

8. A store had 15 watermelons. They sold  $\frac{2}{3}$  of the watermelons. How many watermelons were sold? \_\_\_\_\_ How many were left? \_\_\_\_\_

9. Shade  $\frac{1}{4}$  of the squares. Draw stripes in  $\frac{1}{6}$  of the squares. How many squares are blank? \_\_\_\_\_



10. Ed has 20 sea shells.  $\frac{2}{5}$  are turret shells.  $\frac{1}{4}$  are scallops. The rest are conchs. How many shells are conchs?

11. Alan started studying at 8:15. He studied history for  $\frac{1}{3}$  of an hour and math for  $\frac{2}{5}$  of an hour. At what time did he stop studying?

12. Which is longer, 21 months or  $1\frac{5}{6}$  of a year?

**BONUS** ▶ There were 108 grapes. Sara ate  $\frac{1}{2}$  of them, Jeff ate  $\frac{1}{3}$  of them, and Ron ate  $\frac{1}{6}$  of them. How many were left over?