

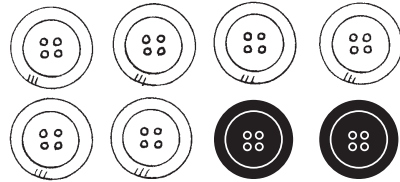
Exploring Fractions of a Set



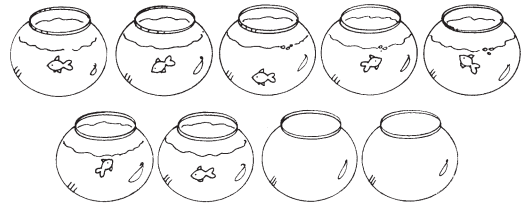
Quick Review

To find a fraction of a set, start by counting.

- There are 8 buttons.
6 of the 8 buttons are white.
 $\frac{6}{8}$ of the buttons are white.
 $\frac{2}{8}$ of the buttons are black.

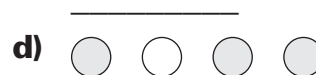
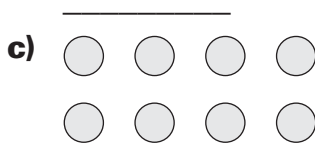
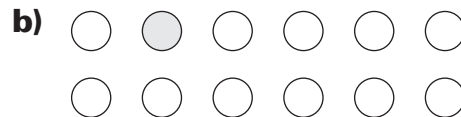
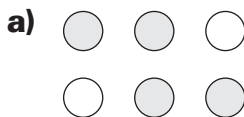


- There are 9 fish bowls.
7 of the 9 fish bowls have a fish.
 $\frac{7}{9}$ of the fish bowls have a fish.
 $\frac{2}{9}$ of the fish bowls are empty.



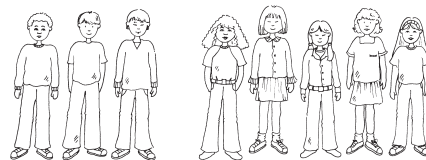
Try These

1. What fraction of each set is shaded?



2. Here are the children who signed up for the chess club.

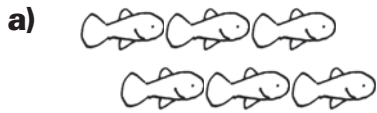
What fraction are boys? _____

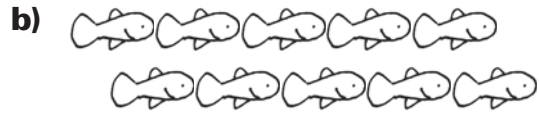


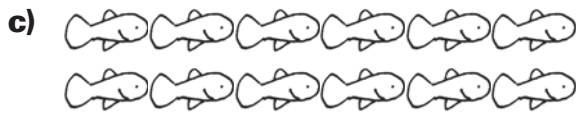
What fraction of the children are girls? _____

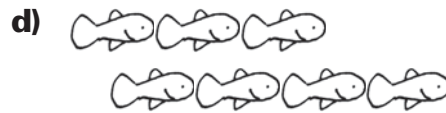
Practice

1. Colour some of the fish in each set.
Write to tell what fraction you coloured.

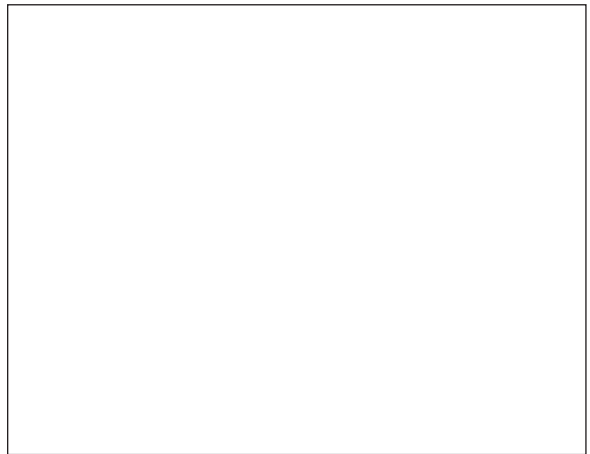








2. a) Marvin has 8 pets.
 $\frac{2}{8}$ of the pets are cats.
 $\frac{3}{8}$ of the pets are dogs.
The rest are hamsters.
Draw Marvin's pets.
- b) Suppose Marvin gets 1 more cat.
What fraction of his pets will be cats?



Stretch Your Thinking

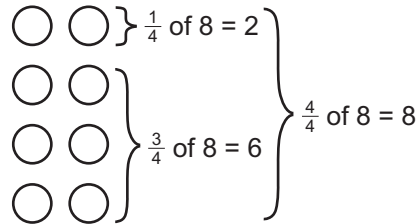
Three of Sally's pencils are broken.
That's $\frac{1}{4}$ of Sally's pencils.
How many pencils does Sally have?
Use pictures, words, and numbers
to show your answer.

Finding a Fraction of a Set



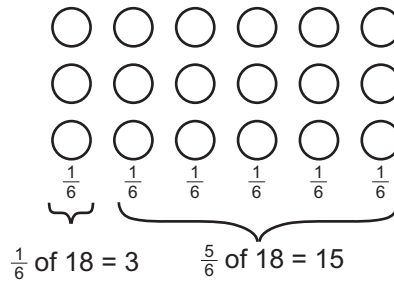
Quick Review

You can use fractions to show equal parts of a set.



Here is a way to find $\frac{5}{6}$ of 18.

The denominator lets us know we are counting sixths.
Divide 18 counters into 6 equal groups to show sixths.



Try These

Draw a picture to show the fraction of each set.

<p>1.</p> <p>$\frac{1}{2}$ of 10 = _____</p>	<p>2.</p> <p>$\frac{2}{3}$ of 9 = _____</p>
<p>3.</p> <p>$\frac{4}{5}$ of 15 = _____</p>	<p>4.</p> <p>$\frac{1}{4}$ of 12 = _____</p>

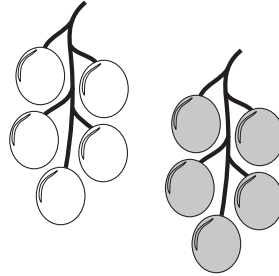
Practice

1. Write a fraction for the shaded part of each set.

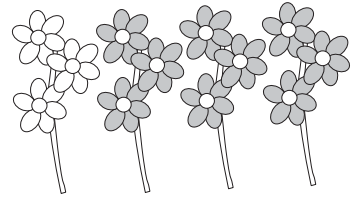
a)



b)



c)



2. Use counters to find the fraction of each set.

a) $\frac{1}{2}$ of 14 = _____

b) $\frac{2}{6}$ of 18 = _____

c) $\frac{3}{5}$ of 15 = _____

d) $\frac{3}{8}$ of 16 = _____

e) $\frac{3}{4}$ of 12 = _____

f) $\frac{6}{10}$ of 20 = _____

g) $\frac{7}{7}$ of 14 = _____

h) $\frac{7}{8}$ of 24 = _____

i) $\frac{2}{3}$ of 15 = _____

3. On Pet Day, 18 children brought a pet to school.

Two-thirds of the pets were dogs. One-ninth of the pets were cats.

a) How many dogs were there? _____

b) How many cats were there? _____

c) How many animals were neither dogs nor cats? _____

Stretch Your Thinking

1. Choose letters from the box.

a) Write a word that uses $\frac{1}{2}$ of the letters.

b) Write a word that uses $\frac{3}{5}$ of the letters.

