

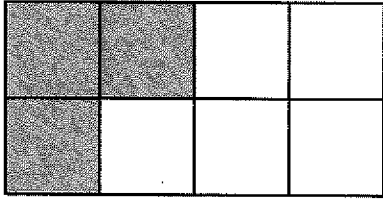


Homework 10-1

Meanings of Fractions

Another Look!

What fractions are modeled below?



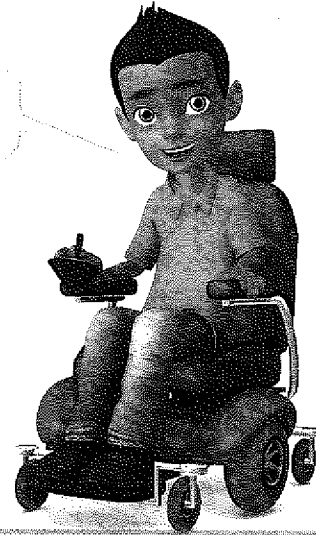
$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{3}{8}$$



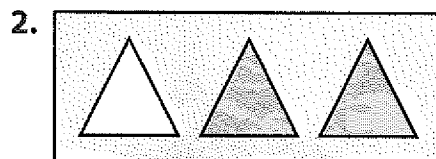
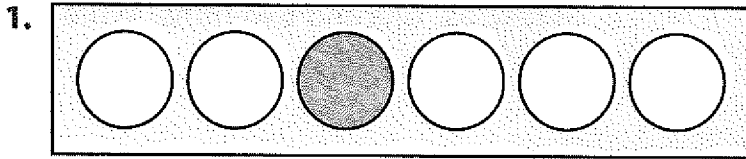
$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{5}{4}$$

The denominator tells how many equal parts make up one whole. The numerator tells how many parts are used.

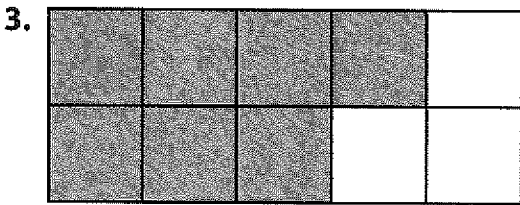
A fraction can be larger than one whole.



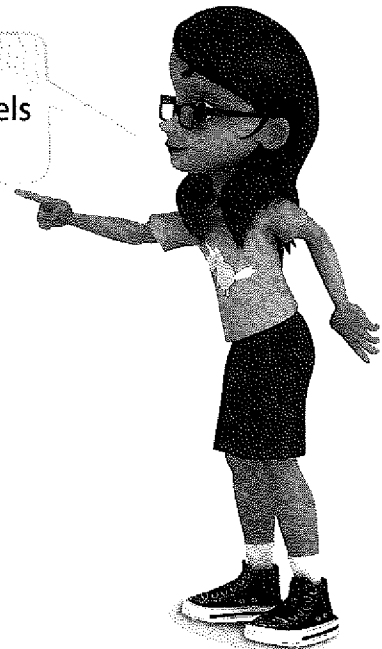
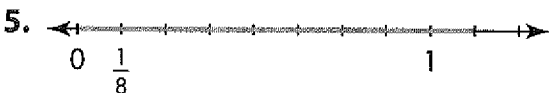
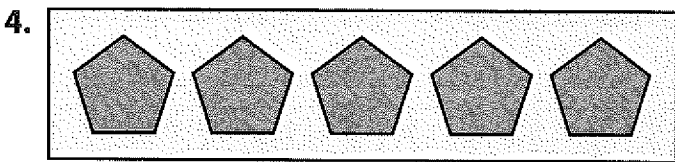
In 1 and 2, write the fraction modeled.



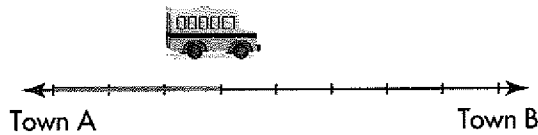
In 3 through 5, write the fraction shown as the sum of unit fractions.



You can use parts of sets, number lines, or area models to represent fractions.




6. **Represent** The distance from Town A to Town B is divided into 8 equal parts. So far, a bus has traveled 12 miles. How far apart are Town A and Town B? Explain.

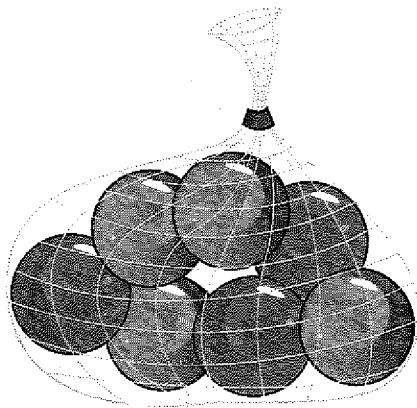


7. **Communicate** Do $\frac{3}{7}$ and $\frac{7}{3}$ represent the same length on a number line? Explain.

8. **Reason** A coin bank contains only quarters and dimes. There are 25 coins in all. Seven of the coins are dimes. What fraction of the coins are quarters?

9. **Represent** Draw a set that represents the fraction $\frac{3}{5}$.

10. Which sum shows the fraction of the  marbles in the bag that are red?



- A $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{4}{3}$ C $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$
 B $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{4}{7}$ D $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{3}{7}$

11. **Extend Your Thinking** A number may have both a whole number and a fractional part, such as $1\frac{2}{5}$. This number is read as, "one and two-fifths." Write $1\frac{2}{5}$ as a fraction only.

You can draw a number line to help.



12. **Use a Strip Diagram** Nora paid \$36 for 6 books. If each book cost the same amount, how much was each book?

