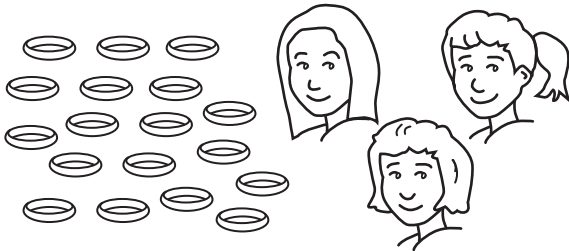


# Understanding Rates and Unit Rates

A rate is a ratio in which the two terms are measured in different units.

Example: 18 bracelets for 3 girls.

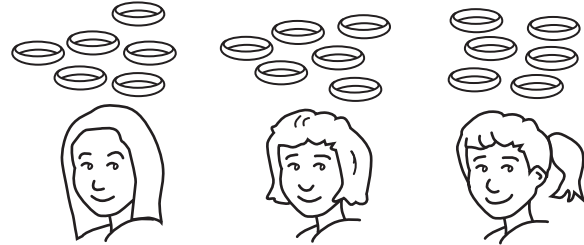
$$\frac{18 \text{ bracelets}}{3 \text{ girls}}$$



In a unit rate, the second number is 1.

Example: 6 bracelets for 1 girl.

$$\frac{6 \text{ bracelets}}{1 \text{ girl}}$$



Remember that the fraction bar shows division.  
If you know a rate, you can divide to find the unit rate.

Example: 17 goals in 5 games is written as  $\frac{17 \text{ goals}}{5 \text{ games}}$ .

$$\begin{array}{r} 3.4 \\ 5 \overline{)17.0} \end{array}$$

The unit rate is 3.4 goals per game. (Per means "for each".)

Write the rate and the unit rate.

1. 25 flowers for 5 vases

\_\_\_\_\_

2. 32 games in 8 weeks

\_\_\_\_\_

3. 144 pencils in 12 packages

\_\_\_\_\_

4. 252 students in 9 classes

\_\_\_\_\_

5. \$13.20 for 6 pounds

\_\_\_\_\_

6. 34 minutes for 8 pages

\_\_\_\_\_

7. **Number Sense** If a car travels 350 miles in 7 hours, what is its rate per hour?

\_\_\_\_\_

8. **Estimation** Bare root plum trees are on sale at 3 for \$40. To the nearest dollar, what is the cost per tree?

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