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| **MODULE:** 6 | **LESSON:** 2 | RATES |

A **rate** is a special type of ratio that compares two quantities measured in *different* units.

A **unit rate** is a rate whose denominator is 1.

**To change a rate to a unit rate, divide both the numerator and denominator by the denominator.**

Example:

**Sue walks 6 yards and passes 24 security lights set along the sidewalk. How many security lights does she pass in per yard?**

Step 1: Write a ratio in fraction form. Put the unit that you are trying to find make 1 in the denominator. The question here is “**How many *security lights* does she pass in per *yard*?”** In this case it is yards.

$$\frac{24 security lights}{6 yards}$$

Step 2: Divide both numbers by the denominator to make a unit rate where the denominator is 1.

$\frac{24 security lights}{6 yards}$ ÷ $\frac{6}{6}=\frac{4 security lights}{1 yard}$

Step 3: Write it as a unit rate using the word ***per***.

4 security lights per yard

(be sure your unit rate has two units like *security lights* and *yards*)

**HINT: When dealing with money, put the cost in the numerator. This will help you find the unit cost.**