

## Module 1:

### Lesson 2: Understanding Proportional Relationships

# Proportion

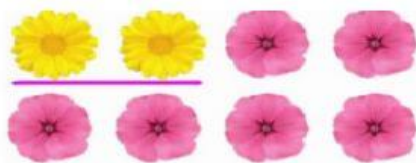
$$\frac{a}{b} = \frac{c}{d}$$

1. Find:

apples to oranges



Ratio of apples to oranges (a:b) =



Ratio of roses to sunflowers =

Are they proportional (yes/no) =

2. Find:



Ratio of triangles to circles =



Ratio of blue marbles to purple marbles = \_\_\_\_\_ = \_\_\_\_\_

Are they proportional (yes/no) = \_\_\_\_\_

**3. Check proportionality:**

**Hint: Simplify the ratio**

3:9 = \_\_\_\_\_

27:81 = \_\_\_\_\_

Are they proportional (yes/no) = \_\_\_\_\_

**4.**

The recipe for a homemade glass cleaner indicates to use a ratio of 1 part vinegar to 4 parts water. Elyse used 3 tablespoons of vinegar and 12 tablespoons of water to make the cleaner.

Ratio of vinegar to water (homemade cleaner) = \_\_\_\_\_

Ratio of vinegar to water (Elyse made) = \_\_\_\_\_ = \_\_\_\_\_

Are they proportional (yes/no) = \_\_\_\_\_

**5.**

A 5-mile taxi ride in one city costs Ayana \$25. A 4-mile taxi ride in a different city costs \$18. Assume the cost in each city is the same amount per mile.

**Hint: Find the cost per mile**

Cost per mile (city 1) = \$ \_\_\_\_\_

Cost per mile (city 2) = \$

Are they proportional (yes/no) =