Homework

Unit 3 · Lesson 1: Understanding Ratios

Name: _____

Date: _____

Objective: *I will determine and write ratios.*

Vocabulary

Ratio: a comparison of any two quantities

The ratio of circles to stars:

$\frac{2}{5}$ or 2:5 or 2 to 5

Steps:

Unit Rates:

1. Read and identify the question.
2. Determine the information needed.
3. Determine the quantity.
4. Write the ratio.

Example # 1

Directions: Read and solve.

What is the ratio of squares to circles? Write answer in more than one form.

Solution:
- Identify the information needed: squares to circles
- Count the number of squares. There are 3 squares.
- Count the number of circles. There are 6 circles.
- Write the ratio of rectangles to circles:
  - ✓ Words: 3 to 6
  - ✓ Fraction: $\frac{3}{6}$
  - ✓ Ratio: 3:6

Example # 2

Mark ran 10 miles on Monday and 2 miles on Tuesday. What is the ratio of the amount of miles Mark ran on Monday to the total amount he ran in the two days?
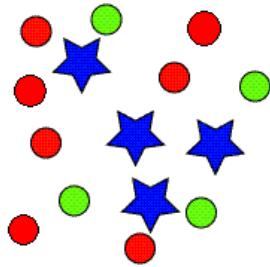
Solution:
- Identify the information needed: miles Monday to total miles
- Write the number of miles for Monday: 10
- Write the number of miles for total amount: 10 + 2 = 12.
- Write the ratio of miles on Monday to total:
  - ✓ Words: 10 to 12
  - ✓ Fraction: $\frac{10}{12}$
  - ✓ Ratio: 10:12

Directions: Read and write answer in word, fraction and ratio forms.

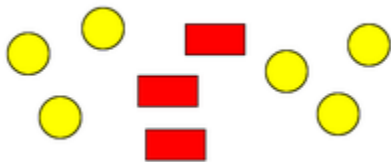|	
1. What is the ratio of stars to total shapes?	2. Of the 25 cupcakes, 4 are chocolate. What is the ratio of the number of chocolate cupcakes to non-chocolate cupcakes?
3. What is the ratio of carrots to cherries?	4. There are 11 male teachers and 44 female teachers at the high school. What is the ratio of the number of male teachers to the total number of teachers?
5. What is the ratio of circles to rectangles?	6. Of the 64 animals in the shelter, 46 are dogs and the rest are cats. What is the ratio of the number of cats to the total number of animals?