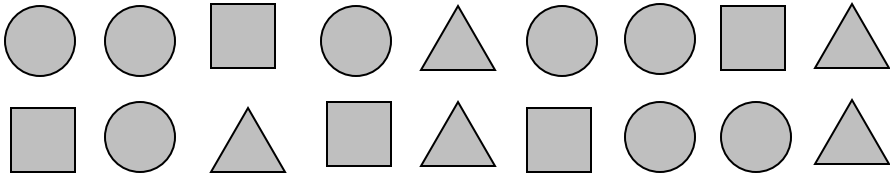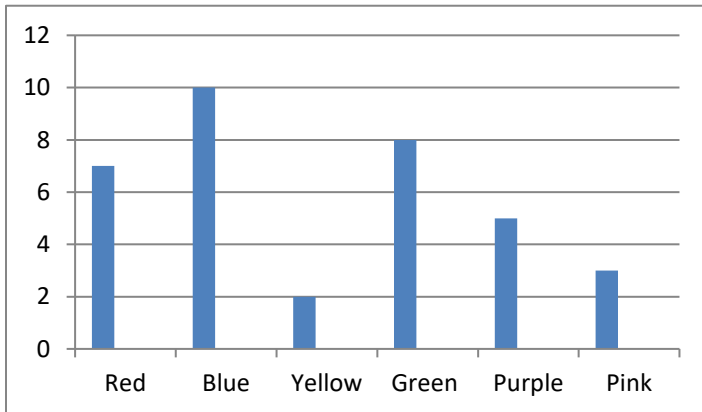NAME:_____ DATE:_____ HOUR:_____

Section 5.1: Ratios Practice

Use the following to help answer questions #1 – 3.

1) Write a ratio representing circles to triangles. Explain what it means.	2) Write a ratio representing squares to circles. Explain what it means.	3) Write a ratio representing triangles to squares. Explain what it means.

Use the following chart to help answer questions #4 – 9.

35 students were asked what their favorite color is. The results are shown below.	4) Write the ratio of students to blue
	5) Write the ratio of purple to yellow
	6) Write the ratio of green to students
	7) Does the ratio you wrote in #4 represent a part-to-part, part-to-whole, or whole-to-part ratio?
	8) Does the ratio you wrote in #5 represent a part-to-part, part-to-whole, or whole-to-part ratio?
	9) Does the ratio you wrote in #6 represent a part-to-part, part-to-whole, or whole-to-part ratio?

Use the following to help you answer questions #10 – 12.

You and your friend decide to cut the grass at some of your neighbor's houses over the summer to help earn some money. After the summer you total the hours spent cutting grass, and between the two of you there was a total of 80 hours.

10) Use the tape diagram below to determine the number of hours you spent cutting grass.

You:

Your Friend:

11) Use the tape diagram below to determine the number of hours you spent cutting grass.

You:

Your Friend:

11) The ratio of hours you worked to the hours your friend worked cutting grass is 2:8. If you earned $8 an hour for each hour you cut grass, create a tape diagram to help you figure out how much total money you earned.

12) The ratio of hours you worked to the hours your friend worked cutting grass is 3:2. If you earned $10 an hour for each hour you cut grass, create a tape diagram to help you figure out how much total money your friend earned.

Create a tape diagram for each of the following ratios and scenarios, and then use it to find the missing value.

13) The ratio of students who liked cats to dogs is 2:5. If 42 students were surveyed, how many like dogs?

14) In making a shade of purple paint, an artist needs to mix red and blue paint in a ratio of 5:4. If 36 ounces of purple paint is mixed, how many ounces of red paint was used?

15) The ratio between you and your two siblings ages are 3:4:7. The sum of the three of your ages is 56 years. How old are you and your siblings?

16) In a bag of M&Ms the ratio of 1:6:2 represents the amount of green, yellow, and red M&Ms that were in a bag. In a bag of 81 M&Ms, determine how many of each color was present.

17) The ratio of the three side measures of a triangle is 3:4:5. The shortest side in the triangle is 15 inches, what is the perimeter or the triangle? (Recall: Perimeter is the sum of all three side measures in a triangle).