Ratios Rates and Proportions Quiz Review
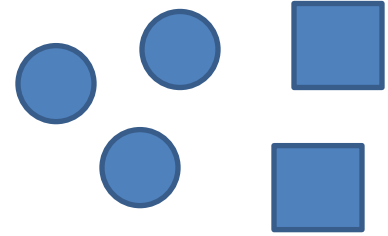
Write each ratio 3 ways.

1) What is the ratio of squares to circles? _____

2) What is the ratio of circles to squares? _____

3) What is the ratio of squares to shapes? _____

4) If there are 12 circles, how many squares are there? _____

5) If there are 14 squares, how many shapes are there? _____

Complete the ratio tables.

6)

1	3		10	
3		15		24

7)

1	
	16
3	24
7	
12	

8)

6	12		16	20
	18	12		

Sarah scored 24 goals during her 16 game season. Complete the ratio table below.

9)

Goals		9	24		33
Games	2			18	

Find the unit rate.

10) 250 miles in 8 hours

11) 24 ounces for 6 scoops

12) 4 cans for $3.50

13) 3 pounds for $11.93

14) $\dfrac{\$6.80}{8\ packages} = \underline{\hspace{3cm}}$

15) $\dfrac{156\ students}{12\ teachers} = \underline{\hspace{3cm}}$

Which is a better deal?

16) A 143 oz. box of Tide detergent for $17.16 or a 98 oz. box of Tide detergent for $10.78?

Use the vocabulary from the unit to write examples for numbers 17-19.

17) Write an example of a ratio.

18) Write an example of a rate.

19) Write an example of a unit rate.

20) Write an example of a proportion.

Solve each proportion. Check your answers using the butterfly method.

21) $\dfrac{1}{3} = \dfrac{4}{x}$

22) $\dfrac{2}{5} = \dfrac{x}{25}$

23) $\dfrac{4}{16} = \dfrac{5}{x}$

24) $\dfrac{x}{3} = \dfrac{12}{18}$

25) $\dfrac{7}{x} = \dfrac{14}{15}$

26) $\dfrac{x}{5} = \dfrac{17}{20}$