

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Units, Rates & Proportions

### Section I. Write the Rate in Lowest Form

1. 72 girls to 40 boys

2. 84 apples to 105 oranges

### Section II. Express as a Unit Rate

3. 3lbs of lemons for 5.97



4. 24 cans of tennis balls for \$75.60



### Section III. Determine if the ratios make a proportion

5.  $\frac{8}{21}$ ,  $\frac{24}{63}$

6.  $\frac{24}{15}$ ,  $\frac{108}{65}$

7. 4 i store apps for \$4.80 and 10 i store apps for \$6.90

8. 12 erasers for \$10.68 and 21 erasers for \$18.69

### Section III. Use the table to write and solve the proportion

9. A bakery:

	Week 1	Week 2
Bread Loaves	24	32
Pastry Boxes	9	x

10. A Flowering Plant:

	July	August
New Flowers	10	y
New Leaves	18	45

11 & 12. Solve the proportion

11.  $\frac{16}{18} = \frac{24}{x}$

12.  $\frac{32}{27} = \frac{y}{63}$

**Section IV. Use the table to convert the following units between systems.**

Length	Capacity	Weight and Mass
1 in. $\approx$ 2.54 cm	1 qt. $\approx$ 0.95 L	1 lb. $\approx$ 0.45 kg
1 mi. $\approx$ 1.6 km		

13. 15 inches = \_\_\_\_ centimeters

14. 22 Liters = \_\_\_\_ quarts

15. 9 kilograms = \_\_\_\_ pounds

16. Which car is faster?



Aston Martin V12 Vanquish S  
320 km/hr



Bugatti EB 16/4 Veyron  
253.2 mph

**Section V. Determine which situation is the best buy.**

17. \$34.00



20 lbs.

\$37.50



25 lbs.

\$66.50



35 lbs.