

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

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

## Ratios and Rates

### Section I. Write the ratio as a fraction in simplest form

1. 30 to 45
2. 18 : 42
3. 15 *dogs to 20 cats*
4. 10 *squares : 25 triangles*
5. 9 *incorrect : 54 correct*
6. 16 *boys to 20 girls*

### Section II. Find the Unit Rate

7. \$6.25 for 5lbs. of apples
8. 207 miles per 8 gallons of gas



9. \$7.20 for 6 sports drinks
10. 450 words in 5 minutes



### Section III. Given the Unit Rate, find the total

11.  $\frac{\$3.49}{\text{gallon}}$ , how much is 16 gallons?
12.  $\frac{55 \text{ miles}}{\text{hour}}$ , how far will you go in 7 hours?
13.  $\frac{\$2.25}{\text{yard}}$ , how much is 8 yards?
14.  $\frac{\$8.25}{\text{hour}}$ , how much will you make in 9 hours?

**Section IV. Word Problems**

15. Which is the best buy?



\$3.20



99¢

16. Which car has the higher terminal speed?

The Ferrari F430 Spider



has a terminal speed of 330 miles  
in  $2\frac{3}{4}$  hours

The Lamborghini Diablo 6.0



has a terminal speed of 427 miles  
in  $3\frac{1}{2}$  hours