KidSmartEducation.com
YOUR PERSONAL LINK TO SUCCESS

Name:_____ Period:_____ Date:_____

Ratios and Rates Answers

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

1. 30 *to* 45

   2 *to* 3

2. 18 : 42

   3 : 7

3. 15 *dogs to* 20 *cats*

   3 *to* 4

4. 10 *squares* : 25 *triangles*

   2 : 5

5. 9 *incorrect* : 54 *correct*

   1 : 6

6. 16 *boys to* 20 *girls*

   4 *to* 5

Section II. Find the Unit Rate

7. \$6.25 *for* 5*lbs. of apples*

   \$1.25/*lb*

8. 207 *miles per* 8 *gallons of gas*

   $25\frac{7}{8}$ *miles per gallon*

9. \$7.20 *for* 6 *sports drinks*

   \$1.20 *for one*

10. 450 *words in* 5 *minutes*

    90 *words per minute*

Section III. Given the Unit Rate, find the total

11. $\frac{\$3.49}{gallon}$, *how much is* 16 *gallons*?

    \$55.84

12. $\frac{55\ miles}{hour}$, *how far will you go in* 7 *hours*?

    385 *miles*

13. $\frac{\$2.25}{yard}$, *how much is* 8 *yards*?

    \$18.00

14. $\frac{\$8.25}{hour}$, *how much will you make in* 9 *hours*?

    \$74.25

KidSmartEducation.com
YOUR PERSONAL LINK TO SUCCESS

Section IV. Word Problems

15. Which is the best buy?

$3.20

99¢

$\frac{\$3.20}{64} = .05\ per\ crayon$ $\frac{.99}{24} = .04\ per\ crayon$

the smaller box of crayons is the better buy

16. Which car has the higher terminal speed?

The Ferrari F430 Spider

has a terminal speed of 330 miles in 2 ¾ hours

The Lamborghini Diablo 6.0

has a terminal speed of 427 miles in 3 ½ hours

$\frac{330\ miles}{2.75\ hours} = 120 miles/hour$ $\frac{427\ miles}{3.5\ hours} = 122\ miles/hour$

The Lamborghini Diablo 6.0 has the higher terminal speed