Grade 8 Math
Rates

Multiple Choice

_____ 1. Laura types 240 words in 3 min. What is her unit rate of typing?

    a. 80 wpm   b. 210 wpm   c. 240 wpm   d. 720 wpm

_____ 2. Victor's model car covers 250 m in 5 min. What is the average speed of his car?

    a. 125 m/min   b. 50 m/min   c. 250 m/min   d. 1250 m/min

_____ 3. A car travels 152 km in 4 h. How far will it travel in 1 h?

    a. 61 km   b. 148 km   c. 38 km   d. 42 km

_____ 4. At an average speed of 34 km/h, how far will a car travel in 8 h?

    a. 26 km   b. 272 km   c. 4.25 km   d. 280 km

_____ 5. At the market, 5 cans of soup cost $4.75. What is the cost of 1 can of soup?

    a. 97¢   b. $1.90   c. 96¢   d. 95¢

_____ 6. A vehicle uses 60 L of gas for travelling a distance of 500 km. Calculate the rate of gas consumption of the vehicle in L/100 km.

    a. 0.12 L/100 km   b. 8.33 L/100 km   c. 12 L/100 km   d. 300 L/100 km
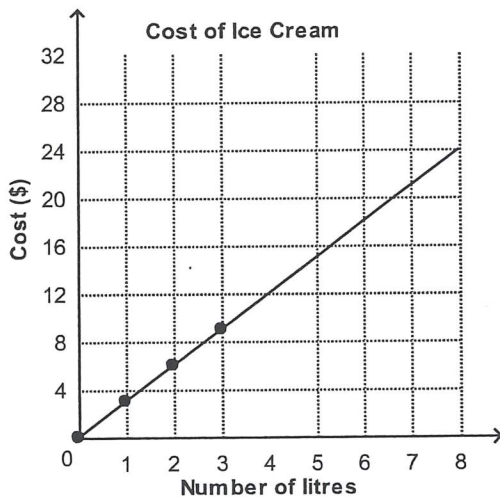
_____ 7. Caitlin planned for a vacation and checked for exchange rates.
She noted that $1 CAD was worth 0.66 Euros. How many Euros would she get for
$30 CAD?

    a. 36.00 euros   b. 19.80 euros   c. 45.00 euros   d. 2.20 euros

_____ 8. Sean saves $25 in 5 weeks. At this rate, how long will it take him to save $55?

    a. 16 weeks   b. 275 weeks   c. 30 weeks   d. 11 weeks

_____ 9. In a store, ice cream is sold by the liter. Use the graph to find the cost of 2 L ice
cream.

Cost of Ice Cream

Cost ($) vs *Number of litres*
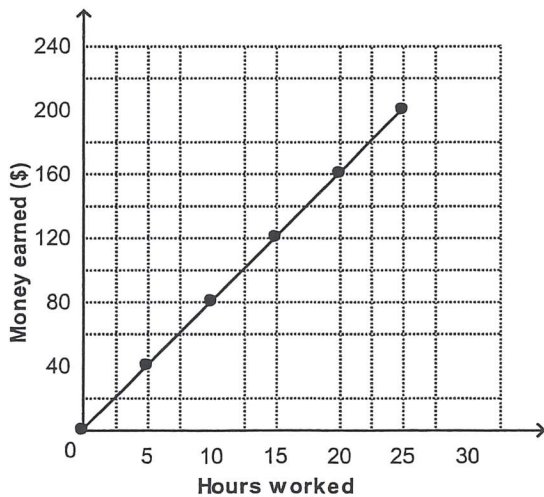
    a. $6.00   b. $3.00   c. $9.00   d. $15.00

10. A plane travelled 2700 km in 9 h. How far did it travel in 1 h?

11. Elisa earned $78.00 for 12 h of work. What was her hourly rate of pay?

12. Corrie drove 176 km in 4 h. Geri drove 215 km in 5 h.
    Who drove faster? Explain.

13. A soccer player scored 26 goals in 82 games.
    What is the player's scoring rate in goals per game?
    Round your answer to the nearest tenth.

14. The graph shows how much Kim earns for the hours she worked.
    a) How much does Kim earn for 1 h of work?
    b) What is Kim's hourly rate of pay?
    c) How much does Kim earn for working 30 h?

15. The cost of 6 m of ribbon is $21.
    a) What is the cost per meter?
    b) What would be the cost of 11 m of ribbon?
    c) How much ribbon could you buy for $28?

16. In 3 stores, the same detergent is on special. Which store offers the best buy? Explain.
    A: 6 bottles for $12.48
    B: 7 bottles for $14.42
    C: 5 bottles for $10.35