Grade 8 Unit Assessment - Ratios, Rates, and Proportional Reasoning



Long Answer (19 marks)

Show your work to receive full marks!

6) Use the coins to help you answer the following questions.

a) What is the ratio of quarters to dimes?



- b) What is the ratio of loonies: total coins?
- c) What fraction of the coins are quarters?
- d) What is the ratio of loonies to dimes to quarters?
- e) What could the ratio 7:5 represent?
- 7) In a math class the ratio of boys to girls is 15 to 8. If there are 16 girls in class, how many boys are there?

- 8) Determine the unit rate for each of the following:
 - a) 168 words in 3 minutes
 - b) \$17 for 5 cards

2

1

5

9) Eve is shopping for soup. Her favourite brands are on sale. Brand A is priced\$8.96 for 8 cans. Brand B is priced \$11.89 for 12 cans. Determine the better buy.Show your work!

10) Solve each proportion statement:

a)
$$\frac{9}{15} = \frac{x}{10}$$
 b) $\frac{16}{x} = \frac{2}{3}$

11) For each of the following, set up a proportion statement to solve:

a) On a map, 1 cm represents 250 km. How many kilometres does 7 cm represent?

b) Travel Rent-a-Car charges \$135 to rent a car for 3 days. At this rate, what will it cost to rent a car for 7 days?

2

2

3

2



Where can you see yourself using what you learned about ratios, rates, and/or proportions in

your daily life? (Besides "I'll probably need it for grade 9 math next year" 😎)

Score for Ratios, Rates, and Proportional Reasoning:

N5 Solve problems that involve ratios, rates, and proportional reasoning