

Worksheet Grade 7C

Name: _____

Class: _____

Date: _____

Section A: Objective Questions (10 Marks)

Choose the correct answer. (1 mark each)

Ratio and Rate

1. Simplify the ratio 18 : 24.
 - ☐ A) 2 : 3
 - ☐ B) 3 : 4
 - ☐ C) 4 : 5
 - ☐ D) 6 : 8
2. If the ratio of boys to girls in a class is 3 : 5 and there are 15 boys, how many girls are there?
 - ☐ A) 20
 - ☐ B) 25
 - ☐ C) 30
 - ☐ D) 35
3. A car travels 180 km in 3 hours. Its speed is:
 - ☐ A) 50 km/h
 - ☐ B) 60 km/h
 - ☐ C) 70 km/h
 - ☐ D) 80 km/h
4. Which of the following ratios is equivalent to 4 : 7?
 - ☐ A) 8 : 12
 - ☐ B) 12 : 21
 - ☐ C) 16 : 30
 - ☐ D) 20 : 40
5. A tap fills 24 litres of water in 6 minutes. What is the rate?
 - ☐ A) 2 L/min
 - ☐ B) 3 L/min
 - ☐ C) 4 L/min
 - ☐ D) 5 L/min

Linear Equations

6. Solve: $x + 8 = 15$
 - ☐ A) 5
 - ☐ B) 6

- C) 7
 - D) 8
 - 7. Solve: $3x = 21$
 - A) 5
 - B) 6
 - C) 7
 - D) 8
 - 8. Solve: $x - 9 = 11$
 - A) 18
 - B) 20
 - C) 22
 - D) 24
 - 9. Solve: $2x + 4 = 16$
 - A) 4
 - B) 5
 - C) 6
 - D) 7
 - 10. Which value satisfies the equation $5x = 40$?
 - A) 6
 - B) 7
 - C) 8
 - D) 9
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Section B: Subjective Questions (10 Marks)

Q1. Ratio (2 Marks)

The ratio of red balls to blue balls is 4 : 7. If there are 28 blue balls, find the number of red balls.

Q2. Rate (2 Marks)

A cyclist travels 72 km in 4 hours. Calculate the cyclist's average speed.

Q3. Linear Equation (3 Marks)

Solve the following equations:

a) $x + 12 = 25$ (1 mark)

b) $4x = 36$ (1 mark)

c) $2x - 6 = 14$ (1 mark)

Q4. Word Problem on Linear Equation (3 Marks)

Ali has some marbles. If he gets 8 more marbles, he will have 25 marbles.

a) Write a linear equation. (1 mark)

b) Solve the equation. (2 marks)

Q4:

a) $x + 8 = 25$

b) $x = 17$ marbles