

BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA

CLASS: VIII (2023-2024)

SUBJECT: MATHEMATICS

CHAPTER: LINEAR EQUATIONS IN ONE VARIABLE

ASSIGNMENT

Q.1 If $3m = 5m - \frac{8}{5}$, then $m = ?$

a) $\frac{2}{5}$

b) $\frac{3}{5}$

c) $\frac{4}{5}$

d) $\frac{1}{5}$

Q.2 If $\frac{n}{2} - \frac{3n}{4} + \frac{5n}{6} = 21$, then $n = ?$

a) 30

b) 42

c) 36

d) 28

Q.3 If $2y + \frac{5}{3} = \frac{26}{3} - y$, then $y = ?$

a) 1

b) $\frac{2}{3}$

c) $\frac{6}{5}$

d) $\frac{7}{3}$

Q.4 Assertion (A) – The root of the equation $3x = 20/7 - x$ is $5/7$

Reason (R) – The value of the variable which makes left hand side equal to right hand side in the given equation is called the solution or the root of the equation

a) Both A and R are true and R is the correct explanation of A

b) Both A and R are true but R is not the correct explanation of A

c) A is true but R is false

d) A is false but R is true

Q.5 Solve: $\frac{x+2}{3} - \frac{x+1}{5} = \frac{x-3}{4} - 1$

Q.6 Kunwar is three years older than Amina. Six years ago, Kunwar's age was 4 times Amina's age. Find the ages of Kunwar and Amina.

Q.7 There are 90 multiple choice questions in a test. Suppose you get 2 marks for every correct answer and for every question you leave unattempted or answer wrongly, one mark is deducted from your total score of correct answers. If you get 60 marks in the test, then how many questions did you answer correctly?

Q.8 There is a narrow rectangular plot, reserved for a school, in Mahuli village. The length and breadth of the plot are in the ratio 11 : 4. At the rate of ₹ 100 per metre, it will cost the village panchayat ₹ 75000 to fence the plot.

i) What is the length of the rectangular plot?

ii) What is the breadth of the rectangular plot?

iii) What is the perimeter of the rectangular plot?

iv) What is the area of the rectangular plot?