INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2025-26

CLASS: VIII SUBJECT: MATHEMATICS DATE: 05 -05-2025

LESSON: 2 LINEAR EQUATIONS IN ONE VARIABLE

1. If m-5 = 2, the find the value of m
2. The value of x for which the expressions 3x – 4 and 2x + 1 become equal is ----
3. If 3x = 4x + 18, then the value of x =-------
4. The solution of 2y + 9 = 4 is --------
5. Solve:
   a) y + 3 = 12
   b) 6 = a + 2
   c) 5x = 25
   d) $\frac{x}{7} = 20$
   e) $\frac{2x}{3} = 12$
   f) z – 6 = 10
6. Solve the following equations:
   a) 8x + 4 = 3(x- 1) + 7
   b) 9 – 2(x – 5) = x + 10
   c) 3(t – 3)=5(2t + 1) + 7
   d) (2x – 2) + (3x – 3) + 9x – 9) = 1
7. Solve:

a) $\frac{7m+4}{m+2} = \frac{-4}{3}$

b) $\frac{4x+7}{9-3x} = \frac{-1}{4}$

c) $\frac{4x+7}{3} + \frac{2x}{5} = \frac{-1}{4}$

d) $\frac{2}{3x+2} = \frac{-1}{4+2x}$

e) $\frac{3t-2}{4} - \frac{2t+3}{3} = \frac{2}{3} - t$

8. Six times of a number is 48. Find the number?
9. Sum of two numbers is 96. If one exceeds by the other by 16. Find the numbers?
10. If 8 is subtracted from the product of x and 5, the result is 12. Find the value of x
11. The sum of the three consecutive odd numbers is 51. Find the numbers?

12. Arun is 6 years older than his younger sister. After 10 years, the sum of their ages will be 50 years. Find their present ages?
13. The three angles of a triangle are in the ratio 2:3:4. Find the angles.

Answers:

1. m = 7 2. x = 5 3. x = -18 4. y = $\frac{-5}{2}$

5. a) y = 9 b) a = 4 c) x = 5 d) x = 140 e) x = 18 e) z = 16

6. a) x = 0 b) x = 3 c) x = -3 d) x = $\frac{15}{14}$

7. a) m = $\frac{-4}{5}$ b) x = $\frac{-37}{13}$ c) $\frac{-155}{104}$ d) $\frac{-10}{7}$ e) 2

8. 8 9. 40 & 56 10. x = 4 11. 15,17,19

12. 12yrs & 18yrs 13. 40°,60°,80°

****