## INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2023-24

## CLASS: VII SUBJECT: MATHEMATICS DATE: 22-06-2023 LESSON:4 – SIMPLE EQUATIONS

- 1. Write the equations for the following statements:
  - a) 5 times of a number is 60
  - b) 12 subtracted from a number is 23
  - c) 14 added to three times of a number is 2
  - d) 8 is subtracted from one fourth of a number, it gives 1
  - e) One sixth of a number is -6
- 2. Write the following in the form of statements:
  - a) 3x = -21
  - b) x 9 = 3
  - c) 2x 4 = 12
  - d)  $\frac{x}{3} + 1 = 6$
- 3. Solve the equations by elimination method:

a) 
$$x - 4 = -1$$
 (Ans: 3)

b) 
$$9x = 6$$
 (Ans:  $\frac{2}{3}$ )

c) 
$$\frac{x}{6} = -1$$
 (Ans: -6)

d) 
$$6x + 1 = 7$$
 (Ans: 1)

e) 
$$\frac{x}{2} + 6 = 1$$
 (Ans: -10)

4. Solve the equations by transposing Method:

a) 
$$5(x+3) = 25$$
 (Ans: 2)

b) 
$$8x - 1 = -11$$
 (Ans:  $\frac{-5}{4}$ 

c) 
$$2 + 3(x - 3) = 14$$
 (Ans: 7)

d) 
$$-3(x+2) = 15$$
 (Ans: -7)

e) 
$$\frac{9x}{5} - 4 = 2$$
 (Ans: -10)

- 5. Solve the following:
  - a) If one more than five times of a number is 71, Find the number?

(Ans:14)

- b) If 3 is taken away from 5 times a number, the result is 17. Find the number. (Ans: 4)
- c) Arun's father is 51 years old. If his present age is 9more than twice the present age of Arun, what is Arun's present age? (Ans: 21)
- d) The sum of two consecutive numbers is 53. Find the numbers

(Ans: 26,27)

- e) The number of boys in a class is 11 more than the number of girls in the class. If there are 75 students in the class, Find the number of boys and girls

  (Ans: B-43, G-32)
- f) The length of a rectangle is 5cm more than its breadth. If the perimeter of a rectangle is 96cm, Find the length and breadth of the rectangle

(Ans: 26.5 cm,21.5cm)

## Answers:

1. a) 5x = 60

b) 
$$y-12 = 23$$

c) 
$$3a + 14 = 2$$

d)  $\frac{x}{4} - 8 = 1$ 

$$e)\frac{z}{6} = -6$$

- 2. a) Three times of a number is -21
  - b) 9 is subtracted from a number is 3
  - c) 4 is subtracted from twice of a number is 12
  - d) One is added to one third of a number is 6

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