INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2024-25 CLASS: 7 / SUBJECT: Maths

LESSON: 4 Simple Equations

- 1. Make equations for given statements:
 - (a) 4 less from thrice a number m is 14.
 - (b) A number x divided by 4 gives 3.
 - (c) 7 less than a number x is 4.
 - (d) Four fifth of a number is greater than three fourth of the number by 4.
 - (e) x exceeds 3 by 7
 - (f)7 added to a number p gives 18
 - (g)Three fourth of a number plus 2 gives 10
 - (h)If you subtract 6 from 5 times a number, you get 29
 - (i)3 is added to a number m and the result is multiplied by 4 to get 20
- 2. Solve the following equations by trial and error method
 - i. X-1=5
 - ii. 2y=16
 - iii. 19=2x+3
- 3. Write the following equations in statement forms:
 - i. x+10=18
 - ii. 2m-1=9
- iii. 3(z-1)=12
- iv. $\frac{x}{4} + 3 = 7$
- 4. Set up an equation and solve the following case:
 - i. Add 7 to 3 times a number, you get 34. Find the number. (x = 9)
 - ii. Subtract 23 from thrice a number the result is 7. find the number. (x = 10)
- iii. Anmol's mother is 4 years more than 3times Anmol's age. Find Anmol's age if mother is 40 years old.(12 years)
- iv. Tony scored twice as many runs as Kohli. Together they scored 6 short of triple century. How many runs did each score? (196, 98).
- V. The three angles of a triangle are in the ratio 2:3:5. Find the measure of each angle. Classify the triangle. (36, 54, 90), (right angled triangle).
- vi. Kadir has 3 pencils less than twice the pencils Kamal has. Kadir has 13 pencils. Find the number of pencils with Kamal. (8 pencils)
- vii. In an isosceles triangle, the vertex angle is twice either base angle. Find the measure of base angle. (45°)

- 5. Solve the following equations:
 - i. 6x=30
 - ii. 3(x-1)+7=11
- iii. m/4 7 = 3
- iv. 5(y-5)=-21
- v. 2m+1/4=7/4
- vi. X-3/2=7/2
- vii. -p/4=-2
- viii. 2x-1/2=3
 - ix. 20-(2x-5)=25
 - x. 3x=15-2x
 - xi. x/2-3=x/3
- xii. x/5+1=x-3
- 6. Answer the following:-
- i. Find two consecutive natural numbers whose sum is 85. [42,43]
- ii. 4 more than one-third of a number is 16. Find the number. [36]
- iii. The cost of a book is rupees 25 more than twice the cost of a geometry box. Find the cost of the book, if the total cost is rupees 130. [95]
- iv. In an isosceles triangle, the base angles are equal. The vertex angle is 40 degree. What are the base angles of the triangle? [70]
- v. Kanishka thinks of a number. If she takes away 7 from 5/6 of that number, the result is 28.Find the number. [42]
- vi. Sarikas father is 25 years older than Sarika. After 10 years he will be twice as old as Sarika. Find their present ages. [40 yrs,15 yrs]
- vii. The length of a rectangular field is twice its breadth. If the perimeter of the field be 96m, find the dimensions of the field. [16m,32m]
- viii. Gagan is thinking of a number. When he divides it by 3, and then adds 4, the answer is half the number. Find the number. [24]

ANSWERS

- 1. a) 3m-4=14 b) x/4=3 c) x-7=4 d) (4/5)x-(3/4)x=4 e) x-3=7 f) p+7=18 g) (3/4)x+2=10 h) 5x-6=29 i) 4(m+3)=20
- 2. i) x=6 ii) y=8 iii) x=11
- 3. i) Ten more than x gives eighteen
 - ii) One subtracted from twice a number gives nine
 - iii) One is subtracted from a number z and the result is multiplied by three to get twelve.

iv)Three added to one fourth of a number gives 7

5. i) x=5 ii)x=7/3 iii) m=40 iv) y=4/5 v) m=3/4 vi) x=5 vii) p=8 viii)x=7/4 ix) x=0 x)x=3 xi) x=18 xii) x=5