INTERNATIONAL INDIAN SCHOOL
BURAIDAH

Worksheet For The Academic Year 2023-24

CLASS: VIII SUBJECT: Mathematics DATE: 14/05/2023

LESSON-2 Linear Equations In One Variable

1. Solve the following equations :
   - I. $7x + 3 = 2x + 13$
   - II. $6m - 4m - 3(3 - m) = 6$
   - III. $\frac{3s}{10} + 7 = \frac{s}{2} + 5$
   - IV. $40\,(4 - 2x) = -9x - 7$
2. Solve the following equations:
   - I. $\frac{2x+2}{2} = \frac{4x-8}{3}$
   - II. $\frac{3x}{4} - \frac{x}{2} = \frac{3x-5}{5}$
   - III. $x + \frac{x}{3} = \frac{x+1}{5}$
   - IV. $\frac{x}{4} - \frac{1}{3} = \frac{1}{4} - \frac{x}{10}$
   - V. $2x + \frac{7}{3} = \frac{22}{3} + x$
   - VI. $4z + 13 = \frac{-1}{4}$
   - VII. $\frac{4y}{9} = \frac{8}{27}$
   - VIII. $\frac{2y}{3} + \frac{1}{6} = \frac{7}{6}$
   - IX. $3p - 4 = 11$
   - X. $\frac{3y+9}{-2} = \frac{2-6y}{5}$
   - XI. $\frac{x+4}{2x+1} = \frac{3}{2}$
   - XII. $4(3x - 5) + 2(x - 1) = 20$
   - XIII. $4x + 8 = 2(x - 15)$
   - XIV. $0.5(2y + 9) = 0.3(4y - 6)$

XV. $2x + 6 = 8 - 3(x-4)$

3. The sum of 3 consecutive multiples of 7 is 336. Find the multiples.
4. The denominator of a fraction is three times its numerator. If the numerator is increased by 43 and the denominator is increased by 4, we get $\frac{2}{5}$. Find the fraction.
5. Sixteen years from now, Gopi's age will be five times his present age. What is his present age?

ANSWERS

1) (i) 2	2) (v) 5	(xiii) -19
(ii) 3	(vi) $-53/16$	(xiv) $63/2$
(iii) 10	(vii) $2/3$	(xv) $14/5$
(iv) $167/71$	(viii) $1/2$	3) 105 , 112 , 119
2) (i) 11	(ix) 5	4) $207/621$
(ii) $20/7$	(x) $-49/3$	5) 4yrs
(iii) $3/17$	(xi) $5/4$	
(iv) $5/3$	(xii) 3	