EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Simple Linear Equations

Grade : ICSE Grade VIII

1. Which of the following equations is the same as $(4x+5)=(2x-6)$

   (i) $(4x+7)=(2x-4)$ (ii) $(4x+2)=(2x-4)$ (iii) $(4x+7)=2x$ (iv) $(4x+7)=(2x-8)$

   (v) $(4x+12)=(2x-4)$

2. Which of the following equations is not equivalent to $(-5x-2)=(-9x-1)$

   (i) $16x=4$ (ii) $(-12x)=(-3)$ (iii) $4x=(-3)$ (iv) $8x=2$ (v) $(-8x)=(-2)$

3. Which of the following equations is the same as $(8x-7)=(4x+9)$

   (i) $(8x-12)=(4x+1)$ (ii) $(8x-13)=(4x+4)$ (iii) $(8x-11)=(4x+4)$ (iv) $(8x-12)=(4x+7)$

   (v) $(8x-12)=(4x+4)$

4. Which of the following equations is the same as $(-8x+5)=(5x-8)$

   (i) $(-7x+2)=(4x-5)$ (ii) $(-10x+4)=(7x-7)$ (iii) $(-10x+4)=(3x-9)$ (iv) $(-6x+6)=(3x-9)$

   (v) $(-9x+8)=(6x-11)$

5. Which of the following equations is the same as $(-6x+1)=0$

   (i) $(-18x+3)=0$ (ii) $(-18x+6)=0$ (iii) $(-18x+3)=(-1)$ (iv) $(-18x+3)=1$ (v) $(-18x)=0$

6. Solve : $(-x-5)+(x+5)=\frac{(-x-2)}{2}$

   (i) -3 (ii) -5 (iii) 0 (iv) -2 (v) -1

In an examination, the ratio of passes to failures was 7 : 2.

7. Had 10 less appeared and 10 less passed, the ratio of passes to failures would have been 31 : 9.
   How many students appeared for the examination?

   (i) 810 (ii) 820 (iii) 800 (iv) 805 (v) 815

8. Solve : $(4x-5)+\frac{(-5x+5)}{2}=(2x-4)$

   (i) 3 (ii) 2 (iii) 1 (iv) 5 (v) 4

9. Two angles of a triangle measure 69° and 66° respectively. Find the measure of the third angle of the triangle

   (i) 47° (ii) 44° (iii) 45° (iv) 46° (v) 43°

10. Which of the following equations is not equivalent to $(-4x+5)=0$

    (i) $(-16x)=(-20)$ (ii) $(-4x)=(-2)$ (iii) $(-8x)=(-10)$ (iv) $4x=5$ (v) $12x=15$

11. Which of the following equations is not the same as $(7x-6)=0$

(i) $(28x-24)=0$ (ii) $(21x-18)=3$ (iii) $(-14x+12)=0$ (iv) $(-21x+18)=0$ (v) $(-35x+30)=0$

12. Which of the following equations is not the same as $(6x+5)=(-9x-7)$

(i) $(6x+3)=(-9x-9)$ (ii) $6x=(-9x-2)$ (iii) $(6x+7)=(-9x-5)$ (iv) $(6x+9)=(-9x-3)$

(v) $(6x+1)=(-9x-11)$

13. Solve : $\frac{(2x+3)}{6} + (x-2) = \frac{(3x+5)}{2}$

(i) -22 (ii) -24 (iii) -27 (iv) -23 (v) -25

14. Solve the equation $(x-2)=0$

(i) 2 (ii) 4 (iii) 3 (iv) -1 (v) 1

15. Which of the following equations is equivalent to $(-x+5)=0$

(i) $(-x)=(-10)$ (ii) $(-x)=(-8)$ (iii) $(-x)=(-5)$ (iv) $(-x)=0$ (v) $(-x)=(-2)$

16. The ratio of two numbers is $3:4$ and their LCM is 108. Find the numbers.

(i) $27:36$ (ii) $30:40$ (iii) $33:44$ (iv) $24:32$ (v) $21:28$

17. Which of the following equations is not the same as $(5x+4)=(-6x+8)$

(i) $(3x+7)=(-8x+11)$ (ii) $(4x+13)=(-7x+17)$ (iii) $(7x+1)=(-4x+5)$ (iv) $(7x+1)=(-8x+11)$

(v) $(6x-5)=(-5x-1)$

18. Find the number which bears the same ratio to $\frac{1}{9}$ that $\frac{2}{4}$ does to $\frac{17}{144}$

(i) $\frac{8}{17}$ (ii) $\frac{8}{19}$ (iii) $\frac{10}{17}$ (iv) $\frac{8}{15}$ (v) $\frac{6}{17}$

19. Which of the following equations is not the same as $(-5x+9)=0$

(i) $(-5x+13)=(-4)$ (ii) $(-5x+7)=(-2)$ (iii) $(-5x+11)=2$ (iv) $(-5x+8)=(-1)$ (v) $(-5x+10)=1$

20. Which of the following equations is the same as $(-4x-7)=(-8x-1)$

(i) $(-5x-4)=(-7x-4)$ (ii) $(-11x-9)=(-x+1)$ (iii) $(-3x-10)=(-9x+2)$ (iv) $(3x-5)=(-15x-3)$

(v) $(-5x-4)=(-9x+2)$

21. Which of the following equations is the same as $5x=(-6x-2)$

(i) $(-10x+3)=(12x+4)$ (ii) $(-10x-3)=(12x+4)$ (iii) $(-10x)=(12x+2)$ (iv) $(-10x)=(12x+6)$

(v) $(-10x)=(12x+4)$

22. Solve : $\frac{(-4)}{(8x-3)} = \frac{(-8)}{(8x+3)}$

(i) $\frac{7}{6}$ (ii) $\frac{9}{8}$ (iii) $\frac{7}{8}$ (iv) $\frac{11}{8}$ (v) $\frac{11}{10}$

23. The L.H.S of the equation $(6x-8)=0$ is

(i) 0 (ii) $(6x-11)$ (iii) $(5x-8)$ (iv) $(6x-6)$ (v) $(6x-8)$

24. Which of the following equations is the same as $(6x-4)=(-4)$

(i) $(9x-3)=(3x-3)$ (ii) $(9x-3)=(-3x-5)$ (iii) $(2x-11)=(4x+3)$ (iv) $(3x-5)=(3x-3)$

(v) $(10x+3)=(-4x-11)$

25. Which of the following equations is not equivalent to $(-7x+2)=3$

(i) $35x=(-5)$ (ii) $14x=(-2)$ (iii) $21x=(-3)$ (iv) $(-7x)=2$ (v) $(-28x)=4$

Assignment Key

1) (i)	2) (iii)	3) (v)	4) (iii)	5) (i)	6) (iv)
7) (i)	8) (i)	9) (iii)	10) (ii)	11) (ii)	12) (ii)
13) (ii)	14) (i)	15) (iii)	16) (i)	17) (iv)	18) (i)
19) (i)	20) (v)	21) (v)	22) (ii)	23) (v)	24) (i)
25) (iv)					