EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Linear Equations

Grade : ICSE Grade VII

1. Solve : $(2x+4)+\frac{(5x+2)}{8}=(2x+3)$

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

2. Solve : $-\frac{4}{(4x-8)}-\frac{3}{(4x+8)}=-\frac{7}{4x}$

   (i) -14 (ii) -15 (iii) -12 (iv) -16 (v) -13

3. Which of the following equations is equivalent to $(-2x+9)=(-6)$

   (i) $(-2x)=(-19)$ (ii) $(-2x)=(-15)$ (iii) $(-2x)=(-14)$ (iv) $(-2x)=(-16)$ (v) $(-2x)=(-11)$

4. Solve : $\frac{(5x-1)}{4}+(-x-4)=\frac{(4x-2)}{2}$

   (i) $(\frac{-5}{3})$ (ii) $(\frac{-11}{5})$ (iii) $(\frac{-15}{7})$ (iv) $(\frac{-11}{7})$ (v) $(\frac{-13}{7})$

5. Solve the equation $(5x+8)=0$

   (i) $(\frac{-6}{5})$ (ii) $(\frac{-8}{5})$ (iii) $(\frac{-10}{7})$ (iv) -2

6. Which of the following equations is the same as $(6x+8)=(-5)$

   (i) $(6x+12)=(-6)$ (ii) $(6x+2)=(-6)$ (iii) $(6x+7)=(-4)$ (iv) $(6x+7)=(-6)$ (v) $(6x+7)=(-8)$

7. Solve : $-\frac{6}{(5x+3)}-\frac{11}{(5x-3)}=-\frac{17}{5x}$

   (i) $(\frac{-55}{27})$ (ii) $(\frac{-51}{25})$ (iii) $(\frac{-47}{23})$ (iv) $(\frac{-53}{25})$ (v) $(\frac{-49}{25})$

8. Which of the following equations is not the same as $(-9x-8)=(-6)$

   (i) $(-9x-3)=(-1)$ (ii) $(-9x-4)=(-10)$ (iii) $(-9x-5)=(-3)$ (iv) $(-9x-13)=(-11)$

   (v) $(-9x-11)=(-9)$

9. Which of the following equations is not the same as $(-6x+3)=0$

   (i) $(-6x+5)=2$ (ii) $(-6x+8)=(-5)$ (iii) $(-6x+1)=(-2)$ (iv) $(-6x-1)=(-4)$ (v) $(-6x+7)=4$

10. Solve the equation $(-2x)=5$

(i) $(\frac{-7}{2})$ (ii) $(\frac{-5}{2})$ (iii) $(\frac{-3}{2})$ (iv) -3 (v) $(\frac{-9}{4})$

11. The R.H.S of the equation $(-7x-2)=(5x-1)$ is

(i) $(4x-1)$ (ii) $(5x-4)$ (iii) $(5x-1)$ (iv) $(5x+2)$ (v) $(-7x-2)$

12. Solve the equation $(4x+1)=(-x+2)$

(i) $\frac{1}{7}$ (ii) $\frac{1}{3}$ (iii) $\frac{3}{5}$ (iv) $\frac{1}{5}$ (v) $(\frac{-1}{5})$

13. Solve : $(x+5)+\frac{(5x+3)}{2}=\frac{(3x-4)}{10}$

(i) $(\frac{-67}{32})$ (ii) $(\frac{-71}{32})$ (iii) $(\frac{-13}{6})$ (iv) $(\frac{-73}{34})$ (v) $(\frac{-69}{32})$

14. Which of the following is a linear equation in one variable?

(i) $(7x-3y+4z+3)=(-7x-4y+2z-8)$ (ii) $(-2x+8y-9)=(-8x-5y-6)$

(iii) $(7x^2+50xy-66x-48y^2+30y+27)=0$ (iv) $(45x^2+96x+27)=(3x+8)$ (v) $(-2x-1)=(2x+2)$

15. Solve : $\frac{(-x-5)}{4}+(-x+4)=\frac{(-x)}{12}$

(i) $\frac{33}{14}$ (ii) $\frac{31}{14}$ (iii) $\frac{29}{12}$ (iv) $\frac{37}{16}$ (v) $\frac{5}{2}$

16. Solve the equation $(-\frac{5}{8}x+\frac{7}{2})=(-3x+\frac{7}{6})$

(i) $(\frac{-58}{57})$ (ii) $(\frac{-18}{19})$ (iii) $(\frac{-56}{57})$ (iv) $(\frac{-56}{55})$ (v) $(\frac{-56}{59})$

17. Solve : $\frac{(-x-1)}{8}+\frac{(-x-5)}{2}=(-x-2)$

(i) $\frac{5}{3}$ (ii) 3 (iii) 1 (iv) $\frac{7}{3}$ (v) $\frac{7}{5}$

18. Solve : $\frac{2}{(x-1)}-\frac{5}{(x-8)}=-\frac{1}{(x-8)}-\frac{2}{(x-3)}$

(i) $\frac{5}{2}$ (ii) $\frac{11}{6}$ (iii) $\frac{17}{8}$ (iv) $\frac{9}{4}$ (v) $\frac{13}{6}$

19. Which of the following is a linear equation in three variable?

(i) $(24x^2+71xy+x+35y^2-25y-10)=0$ (ii) $(6x^2-5x-6)=0$ (iii) $(8x-6)=0$ (iv) $(-5x-3y-1)=0$

(v) $(5x+2y+6z+8)=0$

20. Which of the following equations is not the same as $(-5x-6)=0$

(i) $(20x+24)=(-4)$ (ii) $(-25x-30)=0$ (iii) $(25x+30)=0$ (iv) $(-15x-18)=0$ (v) $(5x+6)=0$

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

(i) $(x+4)=(-1)$ (ii) $(x+1)=4$ (iii) $x=(-5)$ (iv) $(x+10)=5$ (v) $(x+6)=1$

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

(i) $(8x-5)=(-14x)$ (ii) $(-6x-13)=8$ (iii) $(2x-15)=(-8x+10)$ (iv) $(-3)=(-6x-2)$

(v) $(-3)=(-8x+10)$

23. Solve : $(-2x)+(-4x+4)=\dfrac{(4x-2)}{2}$

(i) $\frac{7}{8}$ (ii) $\frac{5}{6}$ (iii) $\frac{5}{8}$ (iv) $\frac{3}{8}$ (v) $\frac{1}{2}$

24. Which of the following equations is not the same as $(-9x)=6$

(i) $(-6x-8)=(-3x+14)$ (ii) $(-12x-4)=(-3x+2)$ (iii) $(-12x+8)=(-3x+14)$

(iv) $(-6x+4)=(3x+10)$ (v) $(-6x-8)=(3x-2)$

25. Which of the following equations is the same as $(7x-1)=(-9)$

(i) $(-28x+6)=36$ (ii) $(-28x+2)=36$ (iii) $(-28x+4)=36$ (iv) $(-28x+4)=39$ (v) $(-28x+4)=33$

Assignment Key

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