EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Simple Linear Equations

Grade : ICSE Grade VIII

1. Solve : $(-x-1)+(x+2)=\frac{(x+5)}{7}$

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

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

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

3. Solve : $\frac{(x-2)}{8}+\frac{(-x+1)}{5}=\frac{(x-3)}{7}$

   (i) $\frac{106}{61}$ (ii) $\frac{104}{61}$ (iii) $\frac{104}{59}$ (iv) $\frac{12}{7}$ (v) $\frac{108}{61}$

4. A ratio is equal to 10 : 1. If its antecendent is 3150, what is its consequent?

   (i) 318 (ii) 316 (iii) 314 (iv) 315 (v) 312

5. Which of the following equations is not the same as $(-2x-8)=(8x-7)$

   (i) $(3x-12)=(13x-11)$ (ii) $(6x-5)=(-10)$ (iii) $(6x-5)=(16x-4)$ (iv) $(-7x-4)=(3x-3)$

   (v) $(-10x-11)=(-10)$

6. The additive inverse of the expression 4 is

   (i) (-7) (ii) 4 (iii) (-1) (iv) (-4) (v) (-5)

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

   (i) $(x+14)=(-2)$ (ii) $(x+4)=(-12)$ (iii) $(x+10)=(-6)$ (iv) $(x+8)=(-8)$ (v) $(x+12)=(-10)$

8. Which of the following equations is not the same as $(8x-3)=(-3)$

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

9. Which of the following equations is the same as $(-3x+2)=(-4x+5)$

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

   (v) $(3x-2)=(4x-1)$

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

(i) 3 (ii) 0 (iii) 5 (iv) 2 (v) 4

11. The R.H.S of the equation $(x-1)=(5x+3)$ is

(i) $(x-1)$ (ii) $5x$ (iii) $(4x+3)$ (iv) $(5x+3)$ (v) $(5x+6)$

Person P is twice as good a workman as Person Q.
12. They can do a work together in 4 days.
In how many days Q alone can do the work?

(i) 14 days (ii) 9 days (iii) 11 days (iv) 12 days (v) 13 days

A certain number of men can do a work in 16 days.
13. If there were 18 men more, it would take 4 days less to complete the work.
How many men are required to complete the work in 48 days?

(i) 19 (ii) 17 (iii) 16 (iv) 18 (v) 21

14. A student walks from his house to school at 4.53 kmph and arrives 25.00 min late. The next day he walks at 9.20 kmph and reaches the school 4.20 min before time. What is the distance from his house to school?

(i) 3.34 km (ii) 4.34 km (iii) 6.34 km (iv) 5.34 km (v) 2.34 km

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

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

16. The L.H.S of the equation $(-5x-3)=0$ is

(i) 0 (ii) $(-6x-3)$ (iii) $(-5x-1)$ (iv) $(-5x-6)$ (v) $(-5x-3)$

17. Which of the following equations is the same as $(5x+2)=(2x+5)$

(i) $(-3x+5)=(10x+2)$ (ii) $(13x-1)=(10x+2)$ (iii) $(8x-2)=(-x+9)$ (iv) $(13x-1)=(-6x+8)$

(v) $(2x+6)=(5x+1)$

18. Solve the equation $9x=4$

(i) $\frac{2}{3}$ (ii) $\frac{4}{7}$ (iii) $\frac{4}{11}$ (iv) $\frac{2}{9}$ (v) $\frac{4}{9}$

19. Which of the following equations is not the same as $(-9x-8)=1$

(i) $(9x+8)=(-1)$ (ii) $(-36x-32)=5$ (iii) $(-45x-40)=5$ (iv) $(-18x-16)=2$ (v) $(36x+32)=(-4)$

20. Solve : $\frac{(x-2)}{4} + \frac{(x-1)}{6} = x$

(i) $(\frac{-6}{7})$ (ii) $(\frac{-10}{9})$ (iii) $(\frac{-6}{5})$ (iv) $(\frac{-10}{7})$ (v) $(\frac{-8}{7})$

21. A student walks from his house to school at 1.35 kmph and arrives 0.80 min late. The next day he walks at 1.94 kmph and reaches the school 16.90 min before time. At what speed must he travel to reach the school on time?

(i) 1.37 kmph (ii) 3.37 kmph (iii) 9.37 kmph (iv) 2.37 kmph (v) 0.37 kmph

22. The ages of A and B are in the ratio 2 : 3. 8 years hence, their ages will be in the ratio 7 : 10. Find their present ages.

(i) $48:72$ (ii) $44:66$ (iii) $46:69$ (iv) $52:78$

23. Solve : $\frac{5}{(5x+2)} + \frac{6}{(5x-2)} = \frac{11}{5x}$

(i) -4 (ii) $(\frac{-24}{5})$ (iii) $(\frac{-30}{7})$ (iv) $(\frac{-22}{5})$ (v) $(\frac{-14}{3})$

24. The L.H.S of the equation $(8x+2)=7$ is

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

25. What number must be added to each term of the ratio $36:252$ to make it $3:5$?

(i) 288 (ii) 287 (iii) 286 (iv) 291 (v) 289

Assignment Key

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