EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Simple Linear Equations

Grade : ICSE Grade VIII

1. Solve : $-\frac{5}{(x-4)}-\frac{2}{(x+4)}=-\frac{7}{x}$

(i) $(\frac{-46}{5})$ (ii) $(\frac{-26}{3})$ (iii) -10 (iv) $(\frac{-28}{3})$

2. A ratio is equal to 7 : 10. If its antecendent is 630, what is its consequent?

(i) 903 (ii) 900 (iii) 897 (iv) 901 (v) 899

3. Which of the following equations is the same as $(5x+8)=0$

(i) $(5x+11)=5$ (ii) $(5x+15)=3$ (iii) $(5x+11)=1$ (iv) $(5x+7)=3$ (v) $(5x+11)=3$

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

(i) $(12x-1)=(24x-24)$ (ii) $(12x-3)=(24x-24)$ (iii) $(12x-3)=(24x-21)$ (iv) $(12x-5)=(24x-24)$

(v) $(12x-3)=(24x-27)$

5. Which of the following equations is equivalent to $(-9x-7)=0$

(i) $(-9x)=9$ (ii) $(-9x)=12$ (iii) $(-9x)=7$ (iv) $(-9x)=2$ (v) $(-9x)=5$

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

(i) $(-x-14)=(-4)$ (ii) $(-x-10)=(-4)$ (iii) $(-x-10)=(-9)$ (iv) $(-x-10)=1$ (v) $(-x-6)=(-4)$

7. Solve : $\frac{3}{(x+8)}-\frac{6}{(x-6)}=\frac{6}{(x-6)}-\frac{9}{(x+6)}$

(i) $(\frac{-172}{23})$ (ii) $(\frac{-188}{25})$ (iii) $(\frac{-184}{25})$ (iv) $(\frac{-186}{25})$ (v) $(\frac{-200}{27})$

8. Solve : $-\frac{3}{(x+1)}+\frac{1}{(x-5)}=\frac{4}{(x-5)}-\frac{6}{(x-1)}$

(i) -4 (ii) -8 (iii) -6 (iv) -7 (v) -9

9. A ratio is equal to 7 : 5. If its consequent is 1960, what is its antecendent?

(i) 2745 (ii) 2746 (iii) 2744 (iv) 2743 (v) 2741

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

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

11. Which of the following equations is not the same as $(5x+1)=(x+6)$

(i) $(-2x+3)=(-6x+8)$ (ii) $(12x+9)=(8x+14)$ (iii) $(-2x+3)=(8x+4)$ (iv) $(12x-1)=(8x+4)$

(v) $(-2x-7)=(-6x-2)$

12. The ages of A and B are in the ratio 1 : 2. 7 years hence, their ages will be in the ratio 6 : 11. Find their present ages.

(i) 33:66 (ii) 35:70 (iii) 37:74 (iv) 34:68

13. A student walks from his house to school at 6.37 kmph and arrives 6.40 min late. The next day he walks at 16.91 kmph and reaches the school 11.80 min before time. At what speed must he travel to reach the school on time?

(i) 8.16 kmph (ii) 7.16 kmph (iii) 9.16 kmph (iv) 6.16 kmph (v) 10.16 kmph

14. Which of the following equations is not the same as $(3x+7)=(-6x+3)$

(i) $(3x+9)=(-6x+5)$ (ii) $(3x+5)=(-6x+1)$ (iii) $(3x+12)=(-6x+8)$ (iv) $(3x+4)=(-6x+6)$

(v) $(3x+2)=(-6x-2)$

15. Which of the following equations is not the same as $(2x+6)=0$

(i) $(x+7)=(-x+1)$ (ii) $(3x+5)=(x-1)$ (iii) $(4x+7)=(2x+1)$ (iv) $5=(-2x-1)$ (v) $5=(2x+1)$

16. Which of the following equations is the same as $(6x+8)=7$

(i) $(6x+13)=15$ (ii) $(6x+14)=12$ (iii) $(6x+12)=12$ (iv) $(6x+13)=9$ (v) $(6x+13)=12$

17. Which of the following equations is the same as $(9x-5)=(-3x-6)$

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

(v) $(9x-8)=(-3x-5)$

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

(i) $(7x-6)=(-x+2)$ (ii) $(7x-7)=(-x+3)$ (iii) $(5x-4)=x$ (iv) $(5x-3)=(x-1)$ (v) $(7x-7)=(x-1)$

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

(i) $(6x+1)=0$ (ii) $(6x-2)=0$ (iii) $(6x+4)=0$ (iv) $(6x+1)=(-5)$ (v) $(6x+1)=5$

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

(i) $\frac{12}{5}$ (ii) $\frac{44}{19}$ (iii) $\frac{40}{17}$ (iv) $\frac{42}{17}$ (v) $\frac{38}{17}$

21. Which of the following equations is not the same as $(5x-8)=1$

(i) $(5x-3)=(-4)$ (ii) $(5x-7)=2$ (iii) $(5x-5)=4$ (iv) $(5x-11)=(-2)$ (v) $(5x-9)=0$

22. Solve the equation $(\frac{5}{4}x+\frac{8}{5})=(-\frac{3}{4}x-\frac{9}{7})$

(i) $(\frac{-103}{70})$ (ii) $(\frac{-99}{70})$ (iii) $(\frac{-103}{72})$ (iv) $(\frac{-101}{70})$ (v) $(\frac{-99}{68})$

23. In $\triangle EFG$, if $\angle E = 50°$ and $\angle F = \angle G$, find the measure of each of the equal angles of the triangle

(i) 64° (ii) 67° (iii) 65° (iv) 66° (v) 63°

24. Solve : $\frac{(-4x+2)}{12} + (-x+1) = \frac{(-x+4)}{4}$

(i) $\frac{2}{15}$ (ii) 0 (iii) $\frac{4}{13}$ (iv) $\frac{2}{13}$ (v) $\frac{2}{11}$

25. Solve the equation $(-\frac{8}{9}x+\frac{7}{6})=0$

(i) $\frac{23}{18}$ (ii) $\frac{21}{16}$ (iii) $\frac{23}{16}$ (iv) $\frac{19}{16}$ (v) $\frac{19}{14}$

Assignment Key

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