EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Linear Equations in One Variable

Grade : SSC Grade VIII

1. The L.H.S of the equation $(5x-7)=0$ is

   (i) $(5x-5)$ (ii) $(4x-7)$ (iii) $(5x-7)$ (iv) 0 (v) $(5x-10)$

2. A can do $\frac{6}{12}$ of a work in $7\frac{1}{2}$ hr.

   He works for 4 hr when B joins him.

   They work together and complete the work in $3\frac{1}{2}$ hr.

   In how much time, B alone can do the work?

   (i) 4 hr (ii) 10 hr (iii) 6 hr (iv) 7 hr (v) 8 hr

3. Which of the following equations is the same as $(6x+7)=0$

   (i) $(-30x-37)=0$ (ii) $(-30x-35)=(-3)$ (iii) $(-30x-35)=3$ (iv) $(-30x-33)=0$ (v) $(-30x-35)=0$

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

   (i) $(\frac{-22}{21})$ (ii) $(\frac{-24}{23})$ (iii) $(\frac{-22}{23})$ (iv) $(\frac{-26}{25})$ (v) $(\frac{-26}{23})$

5. Which of the following equations is not the same as $(-6x-1)=(8x-6)$

   (i) $(-7x-8)=(7x-13)$ (ii) $(-5x+6)=(9x+1)$ (iii) $(-8x)=(6x-5)$ (iv) $(-7x-8)=(9x+1)$

   (v) $(-4x-2)=(10x-7)$

6. The additive inverse of the expression $(3x-9)$ is

   (i) $(3x-9)$ (ii) $(-3x+6)$ (iii) $(-3x+12)$ (iv) $(-4x+9)$ (v) $(-3x+9)$

7. A box contains 399 stationary items of 2 types. The pens and pencils are in the ratio 6 : 1. The number of pens in the box =

   (i) 343 (ii) 344 (iii) 341 (iv) 342 (v) 340

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

   (i) $\frac{49}{4}$ (ii) 13 (iii) $\frac{23}{2}$ (iv) $\frac{27}{2}$ (v) $\frac{25}{2}$

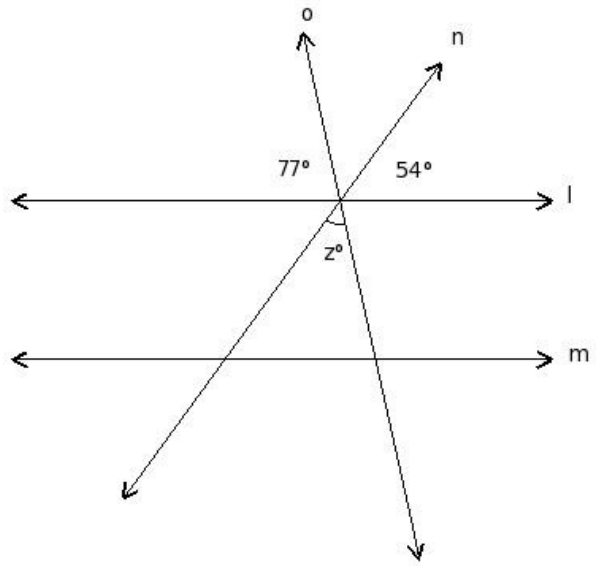
9. Two numbers are in the ratio 1 : 2. If 14 is added to each number, the ratio becomes 10 : 13. Find the numbers.

   (i) 8:16 (ii) 5:10 (iii) 6:12 (iv) 7:14 (v) 4:8

10. Which of the following equations is equivalent to $(7x-3)=5$

(i) $7x=3$ (ii) $7x=13$ (iii) $7x=8$

11. In the given figure l ∥ m. Find the value of 'z'



(i) 59° (ii) 49° (iii) 79° (iv) 64° (v) 54°

12. What number must be added to each term of the ratio $60:100$ to make it $25:29$?

(i) 191 (ii) 189 (iii) 193 (iv) 187 (v) 190

13. Solve : $(x+3)+\frac{(-x+4)}{20}=(-x+5)$

(i) $\frac{10}{13}$ (ii) $\frac{4}{5}$ (iii) $\frac{12}{13}$ (iv) $\frac{12}{11}$ (v) $\frac{14}{13}$

14. Which of the following equations is not the same as $(7x+1)=5$

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

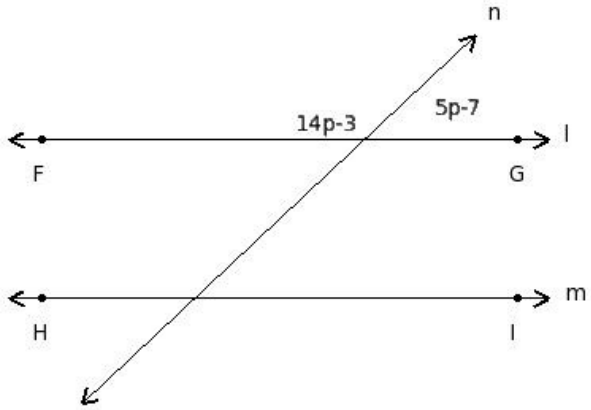
15. The ages of A and B are in the ratio 7 : 8. 10 years ago, their ages were in the ratio 6 : 7. Find their present ages.

(i) $70:80$ (ii) $84:96$ (iii) $56:64$ (iv) $63:72$

16. Which of the following equations is the same as $(6x-9)=(-4)$

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

17. In the given figure l ∥ m. Find the value of 'p'



(i) 7 (ii) 12 (iii) 10 (iv) 9 (v) 11

18. Solve the equation $(-\frac{4}{5}x+\frac{6}{5})=(-3)$

(i) $\frac{19}{4}$ (ii) $\frac{11}{2}$ (iii) $\frac{23}{4}$ (iv) $\frac{21}{4}$ (v) $\frac{31}{6}$

19. Solve the equation $(8x-9)=0$

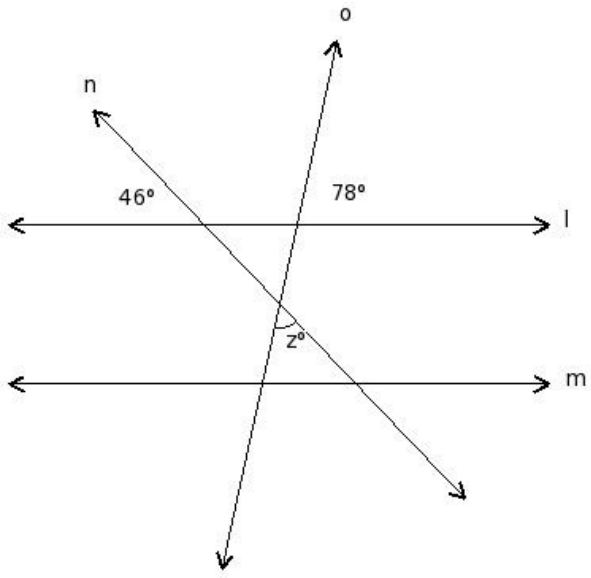
(i) $\frac{7}{6}$ (ii) $\frac{9}{8}$ (iii) $\frac{11}{8}$ (iv) $\frac{7}{8}$ (v) $\frac{11}{10}$

20. Which of the following equations is not the same as $(-x-1)=(-3x-2)$

(i) $(-2x-3)=(-4x-4)$ (ii) $1=(-2x)$ (iii) $(3x+6)=(x+5)$ (iv) $(-5x-8)=(-7x-9)$

(v) $(-5x-8)=(x+5)$

21. In the given figurel ∥ m. Find the value of 'z'



(i) 71° (ii) 86° (iii) 56° (iv) 61° (v) 66°

22. Solve : $\frac{6}{(4x-5)}=\frac{(-9)}{(4x+8)}$

(i) $\frac{1}{20}$ (ii) $(\frac{-1}{18})$ (iii) $(\frac{-1}{22})$ (iv) $(\frac{-3}{20})$ (v) $(\frac{-1}{20})$

23. A student walks from his house to school at 6.85 kmph and arrives 15.30 min late. The next day he walks at 14.04 kmph and reaches the school 2.30 min before time. At what speed must he travel to reach the school on time?

(i) 11.35 kmph (ii) 10.35 kmph (iii) 14.35 kmph (iv) 12.35 kmph (v) 13.35 kmph

24. A train crosses a telegraph post in 26.56 sec and a bridge 272.16 m long in 52.48 sec. What is the speed of the train?

(i) 8.50 m/sec (ii) 11.50 m/sec (iii) 12.50 m/sec (iv) 9.50 m/sec (v) 10.50 m/sec

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

(i) $(12x+1)=(8x-9)$ (ii) $(13x+13)=(-9x-11)$ (iii) $(13x+13)=(9x+3)$ (iv) $(-4x+11)=(-8x+1)$

(v) $(-5x-1)=(-9x-11)$

Assignment Key

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