EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Linear Equations in One Variable

Grade : CBSE Grade VIII

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

   (i) $(-6x-11)=(7x-1)$ (ii) $(-6x-9)=(7x+1)$ (iii) $(-6x-3)=(7x+7)$ (iv) $(-6x-5)=(7x+5)$

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

2. Solve the equation $(-8x+4)=(6x+5)$

   (i) $(\frac{-1}{12})$ (ii) $(\frac{-1}{14})$ (iii) $\frac{1}{14}$ (iv) $(\frac{-1}{16})$ (v) $(\frac{-3}{14})$

3. The R.H.S of the equation $(x+8)=0$ is

   (i) (-2) (ii) (-1) (iii) $(x+8)$ (iv) 0 (v) 3

4. Which of the following equations is the same as $(5x-7)=(4x+4)$

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

   (v) $(6x-7)=(3x+4)$

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

   (i) $(\frac{-7}{3})$ (ii) $(\frac{-15}{7})$ (iii) $(\frac{-11}{5})$ (iv) $(\frac{-13}{5})$ (v) $(\frac{-9}{5})$

6. Which of the following equations is not equivalent to $(-4x)=(-9)$

   (i) $20x=45$ (ii) $(-4x)=(-9)$ (iii) $12x=27$ (iv) $(-4x)=(-13)$ (v) $(-16x)=(-36)$

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

   (i) $10x=(-2)$ (ii) $(-8x)=28$ (iii) $(-2x)=7$ (iv) $(-6x)=21$ (v) $6x=(-21)$

8. Solve the equation $(-4x-2)=0$

   (i) $\frac{1}{2}$ (ii) $(\frac{-1}{2})$ (iii) -1 (iv) $(\frac{-1}{4})$ (v) $(\frac{-3}{2})$

9. Which of the following equations is equivalent to $(-4x+1)=0$

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

10. Which of the following equations is the same as $(-6x-8)=0$

    (i) $(-12x-16)=(-2)$ (ii) $(-12x-15)=0$ (iii) $(-12x-16)=0$ (iv) $(-12x-17)=0$ (v) $(-12x-16)=2$

11. Which of the following equations is not the same as $(-9x-7)=(-2)$

    (i) $(-9x-11)=2$ (ii) $(-9x-10)=(-5)$ (iii) $(-9x-8)=(-3)$ (iv) $(-9x-4)=1$ (v) $(-9x-6)=(-1)$

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

(i) $(\frac{-23}{7})$ (ii) $(\frac{-31}{9})$ (iii) $(\frac{-27}{7})$ (iv) $(\frac{-19}{5})$ (v) $(\frac{-25}{7})$

13. Solve : $-\frac{4}{(x-3)} - \frac{1}{(x-2)} = \frac{4}{(x-2)} - \frac{9}{(x+2)}$

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

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

(i) $(x-11)=(-6)$ (ii) $(x-10)=(-11)$ (iii) $(x-10)=(-1)$ (iv) $(x-9)=(-6)$ (v) $(x-10)=(-6)$

15. Solve : $\frac{9}{(9x+2)} = \frac{(-9)}{(9x+5)}$

(i) $(\frac{-7}{20})$ (ii) $(\frac{-1}{2})$ (iii) $(\frac{-7}{18})$ (iv) $(\frac{-5}{18})$ (v) $(\frac{-7}{16})$

16. Solve the equation $(\frac{9}{4}x-\frac{5}{6})=(\frac{9}{7}x-\frac{7}{8})$

(i) $(\frac{-1}{18})$ (ii) $(\frac{-7}{162})$ (iii) $(\frac{-5}{162})$ (iv) $(\frac{-7}{164})$ (v) $(\frac{-7}{160})$

17. A can do a work in 6 days . With the help of B, A can do the same work in $1\frac{1}{2}$ days . In how many days can B alone do the work?

(i) 1 day (ii) 0 days (iii) 4 days (iv) 3 days (v) 2 days

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

(i) $\frac{14}{13}$ (ii) $\frac{18}{13}$ (iii) $\frac{6}{5}$ (iv) $\frac{16}{13}$ (v) $\frac{14}{11}$

19. The ratio of males to females in a committee of 324 members is 8 : 19. How many more ladies should be added to the committee so that the ratio of males to females is 8 : 23?

(i) 47 (ii) 49 (iii) 48 (iv) 45 (v) 50

20. A train crosses a telegraph post in 38.10 sec and a bridge 715.54 m long in 64.68 sec. What is the speed of the train?

(i) 27.92 m/sec (ii) 28.92 m/sec (iii) 24.92 m/sec (iv) 26.92 m/sec (v) 25.92 m/sec

21. Due to a leak at the bottom, pipe Y takes $2\frac{2}{5}$ hr to fill the tank.
The leak alone can empty the full tank in 12 hr.
In what time can pipe Y alone fill the tank when the leak is closed?

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

22. Solve : $-\frac{3}{(x+3)}+\frac{2}{(x-9)}=-\frac{3}{(x-9)}+\frac{2}{(x-2)}$

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

23. Which of the following equations is not the same as $(2x-8)=(-x-4)$

(i) $(2x-13)=(-x+1)$ (ii) $(2x-12)=(-x-8)$ (iii) $(2x-4)=(-x)$ (iv) $(2x-11)=(-x-7)$

(v) $(2x-5)=(-x-1)$

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

(i) $(\frac{-37}{7})$ (ii) $(\frac{-27}{5})$ (iii) $(\frac{-39}{7})$ (iv) $(\frac{-47}{9})$ (v) -5

25. The additive inverse of the expression 6 is

(i) (-3) (ii) (-9) (iii) (-7) (iv) 6 (v) (-6)

Assignment Key

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