EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Simple Linear Equations

Grade : ICSE Grade VIII

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1. Which of the following equations is not the same as $(3x+9)=(9x-4)$

   (i) $(4x+9)=(10x-4)$ (ii) $(-2x+13)=4x$ (iii) $(2x+9)=(8x-4)$ (iv) $(2x+9)=(10x-4)$

   (v) $(8x+5)=(14x-8)$

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

   (i) $(\frac{-41}{25})$ (ii) $(\frac{-41}{23})$ (iii) $(\frac{-37}{21})$ (iv) $(\frac{-39}{23})$ (v) $(\frac{-37}{23})$

3. The additive inverse of the expression $(-5x+9)$ is

   (i) $(-5x+9)$ (ii) $(5x-11)$ (iii) $(5x-9)$ (iv) $(5x-6)$ (v) $(4x-9)$

4. Which of the following equations is not the same as $(4x+1)=(-6)$

   (i) $(11x+10)=(-7x-15)$ (ii) $(5x+2)=(x-5)$ (iii) $(11x+10)=(7x+3)$ (iv) $3x=(-x-7)$

   (v) $(-3x-8)=(-7x-15)$

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

   (i) $(-5x+42)=5$ (ii) $(-5x+40)=9$ (iii) $(-5x+40)=1$ (iv) $(-5x+40)=5$ (v) $(-5x+38)=5$

6. In a mixture of 68 litres, the ratio of milk and water is $1:3$. How much water must be added to this mixture to make the ratio $17:123$?

   (i) 74 (ii) 69 (iii) 71 (iv) 73 (v) 72

7. Which of the following equations is not equivalent to $(5x+6)=0$

   (i) $(-15x)=18$ (ii) $5x=(-10)$ (iii) $(-25x)=30$ (iv) $5x=(-6)$ (v) $10x=(-12)$

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

   (i) $(3x+11)=(-9x+2)$ (ii) $(3x+2)=(-9x-7)$ (iii) $(3x+1)=(-9x-8)$ (iv) $(3x+10)=(-9x+1)$

   (v) $(3x+3)=(-9x)$

9. What number must be added to each term of the ratio $48:60$ to make it $14:15$?

   (i) 118 (ii) 119 (iii) 121 (iv) 122 (v) 120

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

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

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

(i) -8 (ii) -11 (iii) -6 (iv) -9 (v) -7

12. A train crosses a telegraph post in 10.46 sec and a bridge 963.77 m long in 46.05 sec. What is the speed of the train?

(i) 28.08 m/sec (ii) 27.08 m/sec (iii) 25.08 m/sec (iv) 26.08 m/sec (v) 29.08 m/sec

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

(i) 30:60 (ii) 28:56 (iii) 32:64 (iv) 29:58

14. Which of the following equations is the same as $(8x-9)=(-8x-3)$

(i) $(-24x+25)=(24x+9)$ (ii) $(-24x+27)=(24x+14)$ (iii) $(-24x+29)=(24x+9)$

(iv) $(-24x+27)=(24x+4)$ (v) $(-24x+27)=(24x+9)$

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

(i) $(-2x)=(-3)$ (ii) $(-2x)=2$ (iii) $(-2x)=(-8)$ (iv) $(-2x)=(-1)$ (v) $(-2x)=(-5)$

16. Two angles of a triangle measure 59° and 53° respectively. Find the measure of the third angle of the triangle

(i) 70° (ii) 67° (iii) 66° (iv) 69° (v) 68°

17. A student walks from his house to school at 2.84 kmph and arrives 11.30 min late. The next day he walks at 6.96 kmph and reaches the school 23.30 min before time. What is the distance from his house to school?

(i) 0.76 km (ii) 1.76 km (iii) 4.76 km (iv) 3.76 km (v) 2.76 km

18. Which of the following equations is not the same as $(-6x+7)=(-5x+8)$

(i) $(-5x+10)=(-4x+11)$ (ii) $(-7x+4)=(-4x+11)$ (iii) $(-7x+14)=(-6x+15)$ (iv) $(-5x)=(-4x+1)$

(v) $(-7x+4)=(-6x+5)$

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

(i) $\frac{10}{19}$ (ii) $\frac{8}{19}$ (iii) $\frac{10}{21}$ (iv) $\frac{10}{17}$ (v) $\frac{12}{19}$

20. Which of the following equations is not the same as $(2x+6)=(-1)$

(i) $(4x+12)=(-2)$ (ii) $(6x+18)=(-3)$ (iii) $(-8x-24)=(-5)$ (iv) $(-10x-30)=5$

(v) $(10x+30)=(-5)$

21. A certain number of men can do a work in 56 days.
If there were 5 men more, it would take 8 days less to complete the work.
How many men are required to complete the work in 42 days?

(i) 42 (ii) 40 (iii) 37 (iv) 39 (v) 41

22. The ratio of two numbers is $4:1$ and their LCM is 28. Find the numbers.

(i) $36:9$ (ii) $20:5$ (iii) $24:6$ (iv) $32:8$ (v) $28:7$

23. In a right-angled triangle, the two acute angles are in the ratio 13 : 5. Find these angles.

(i) $A=65°, C=25°$ (ii) $A=66°, C=26°$ (iii) $A=67°, C=27°$ (iv) $A=64°, C=24°$ (v) $A=63°, C=23°$

24. Which of the following equations is the same as $(-4x-7)=1$

(i) $(-4)=(-4x-2)$ (ii) $(-8x-10)=(4x+4)$ (iii) $(-8x-10)=(-4x-2)$ (iv) $(-9x-6)=5x$

(v) $(x-8)=(-5x+2)$

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

(i) $(6x-6)=(-3)$ (ii) $(6x-7)=(-3)$ (iii) $(6x-6)=(-8)$ (iv) $(6x-5)=(-3)$ (v) $(6x-6)=2$

Assignment Key

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