



1. A certain amount has been divided into two parts in the ratio 6 : 8. If the first part is 228, find the total amount.
(i) 532 (ii) 533 (iii) 531 (iv) 535 (v) 530

2. Which of the following equations is the same as $(-3x-5)=(-7)$
(i) $(-4x-4)=(x-8)$ (ii) $(-4)=(3x-6)$ (iii) $(-4)=(-3x-8)$ (iv) $(-6x-6)=(3x-6)$
(v) $(-2x-6)=(-x-6)$

3. Which of the following is a linear equation in two variable?
(i) $(-10x^2+38x-36)=(-x+6)$ (ii) $(28x^2+64xy+35x+16y^2-38y-63)=0$ (iii) $(-3x+3)=(-7x-2)$
(iv) $(6x+8y-1)=(8x+5y+1)$ (v) $(-3x-9y+3z-4)=(-5x-8y+7z-2)$

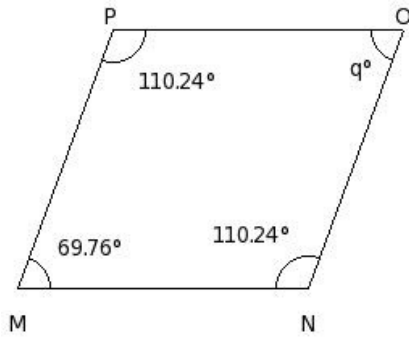
4. Which of the following equations is not equivalent to $(4x-1)=0$
(i) $4x=4$ (ii) $(-20x)=(-5)$ (iii) $8x=2$ (iv) $(-8x)=(-2)$ (v) $20x=5$

5. Solve : $\frac{4}{(x-3)} - \frac{5}{(x-1)} = -\frac{5}{(x-1)} + \frac{4}{(x-4)}$
(i) 1 (ii) 4 (iii) 0 (iv) 2 (v) -2

6. Solve : $\frac{2}{(5x-9)} = \frac{(-5)}{(5x+3)}$
(i) $\frac{41}{35}$ (ii) $\frac{37}{33}$ (iii) $\frac{39}{35}$ (iv) $\frac{37}{35}$ (v) $\frac{41}{37}$

7. Solve : $(x+3) + \frac{4x}{10} = \frac{(x-2)}{5}$
(i) $(\frac{-19}{6})$ (ii) $(\frac{-5}{2})$ (iii) $(\frac{-13}{4})$ (iv) $(\frac{-17}{6})$ (v) $(\frac{-21}{8})$

8. Find the missing angle in the given parallelogram



- (i) 99.76° (ii) 69.76° (iii) 79.76° (iv) 74.76° (v) 84.76°

9. The L.H.S of the equation $(-9x-2)=0$ is

- (i) $(-10x-2)$ (ii) 0 (iii) $(-9x-2)$ (iv) $(-9x-4)$ (v) $(-9x)$

The ratio of two numbers is

10. 4:1

and their LCM is 40. Find the numbers.

- (i) 32:8 (ii) 36:9 (iii) 44:11 (iv) 48:12 (v) 40:10

11. Which of the following equations is not the same as $(8x+8)=0$

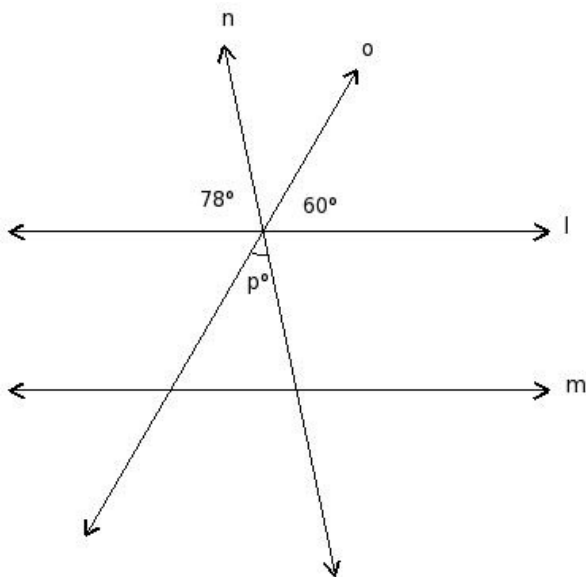
- (i) $(15x+13)=(7x+5)$ (ii) $(11x+9)=(3x+1)$ (iii) $(5x+7)=(-3x-1)$ (iv) $(x+3)=(-7x-5)$
(v) $(15x+13)=(-7x-5)$

In an examination, the ratio of passes to failures was 3 : 1.

12. Had 65 less appeared and 20 less passed, the ratio of passes to failures would have been 44 : 7.
How many students appeared for the examination?

- (i) 325 (ii) 310 (iii) 320 (iv) 330 (v) 315

13. In the given figure $l \parallel m$. Find the value of 'p'



- (i) 52° (ii) 72° (iii) 42° (iv) 47° (v) 57°

14. Which of the following equations is not the same as $(3x+4)=0$

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

15. Two numbers are in the ratio 4 : 1 and their difference is 63. Find the numbers.

- (i) 84,21 (ii) 84,18 (iii) 83,21 (iv) 85,21 (v) 84,23

16. Which of the following is a linear equation in one variable?

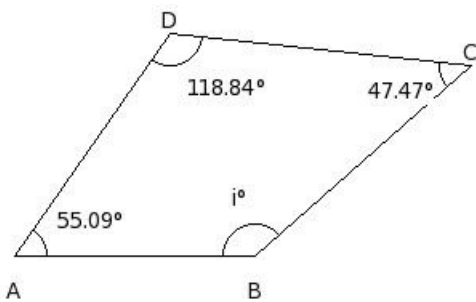
- (i) $(9x+2y+7z+3)=0$ (ii) $(7x-2y-9)=0$ (iii) $(-14x^2+50x-24)=0$
(iv) $(6x^2-48xy-44x-54y^2+36y+48)=0$ (v) $(-6x+8)=0$

A, B and C together can do a work in $\frac{4}{5}$ days.

17. If A and C can do the work in 2 days and 4 days respectively, in how many days can B alone do the work?

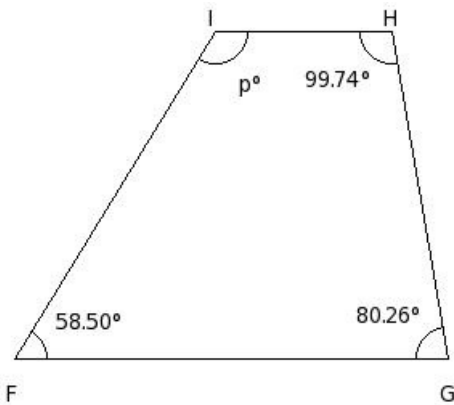
- (i) 4 days (ii) -1 days (iii) 1 day (iv) 2 days (v) 3 days

18. Find the missing angle in the given quadrilateral



- (i) 148.6° (ii) 153.6° (iii) 138.6° (iv) 143.6° (v) 168.6°

19. Find the missing angle in the given trapezium



- (i) 131.5° (ii) 151.5° (iii) 126.5° (iv) 121.5° (v) 136.5°

20. Solve : $-\frac{2}{(x-1)} + \frac{1}{(x-8)} = \frac{4}{(x-8)} - \frac{5}{(x-3)}$

- (i) $(\frac{-15}{11})$ (ii) $(\frac{-19}{11})$ (iii) $(\frac{-5}{3})$ (iv) $(\frac{-17}{11})$ (v) $(\frac{-19}{13})$

21. Which of the following equations is not the same as $(-4x+3)=(-8)$

- (i) $(12x-9)=(-11)$ (ii) $(-16x+12)=(-32)$ (iii) $(16x-12)=32$ (iv) $(20x-15)=40$ (v) $(8x-6)=16$

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

- (i) $(7x+7)=5$ (ii) $(7x+8)=8$ (iii) $(7x+9)=5$ (iv) $(7x+8)=2$ (v) $(7x+8)=5$

23. The R.H.S of the equation $(-6x-4)=5$ is

- (i) $(-6x-4)$ (ii) 2 (iii) 5 (iv) 4 (v) 8

24. Which of the following equations is not the same as $(7x-1)=(-4)$

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

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

- (i) $8=(2x-5)$ (ii) $(2x+10)=(2x-5)$ (iii) $(-2x+7)=(6x-2)$ (iv) $8=(4x-3)$ (v) $(4x+11)=(-6)$

Assignment Key

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