



## EQUATIONS

class-6-Mathematics    Number of Questions: 59

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**1**

Which of the following is false about the given equation?

$$5 + x = 8$$

- Both the sides are equal to each other.
- If you bring 5 to the right side, you will get the value of  $x$ .
- If you bring 8 to the left side and  $x$  to the right, you will get the wrong value of  $x$ .
- $x$  is called the 'variable' in the given equation.

**2**

Find out the value of  $k$ :

$$13 + k = 25$$

- 13
- 12
- 38
- 20

**3**

Find out the value of  $t$ :

$$2t + 6 = 14$$

- 8
- 7
- 10
- 4

**4**

What is the value of  $d$ ?

$$\frac{2}{4}d - 1 = 9$$

- 16
- 4
- 5
- 20

**5**

Which of the following statements is true?

$$8 + s = 6$$

- $s = 2$      $s = -2$      $s = 14$     Any value of  $s$  will be correct.

**6**

Choose the correct representation of the following statement:

' 21 subtracted from a certain number  $p$  gives 15. '

- $21 - p = 15$      $15 - p = 21$      $p - 21 = 15$      $p - 15 = 21$

**7**

Choose the correct representation of the following statement:

' 16 added to the twice of a certain number  $h$  gives 20. '

- $h + 16 = 20$      $h = 16 + 20$      $2h - 16 = 20$      $2h + 16 = 20$

**8**

Choose the correct representation of the following statement:

' When a certain number  $a$  is divided by 13, it gives 2. '

- $\frac{a}{13} = 2$      $\frac{a}{2} = 13$      $\frac{13}{a} = 2$      $\frac{2}{a} = 13$

**9**

Choose the correct representation of the following statement:

' When 2 is added to thrice of a certain number  $b$ , it gives the product of  $b$  and 5. '

- $3 + 2b = 5b$      $2 + 3b = 5b$      $5 + 3b = 2b$      $2 + 5b = 3b$

**10**

Find out the value of  $x$  from the following equation:

$$x - 4 = 28$$

- 24    32    30    28

**11**

Solve for the value of  $w$ :

$$\frac{w}{4} = 12$$

- 3    16    48    30

**12**

Solve for the value of  $x$

$$6x = 36$$

- 3    6    30    42

**13**

Which of the following statements is false?

An equation may be simplified and solved by:

- Adding the same number to both sides.  
 Subtracting the same number from both sides.  
 Dividing both sides by different numbers.  
 Multiplying both sides by the same number.

**14**

Pick the right equation for the following statement:

'A book has 50 pages. Another bigger book has  $p$  pages. The difference in their number of pages is 100.'

- $p - 50 = 100$      $p - 100 = 50$      $50 - p = 100$      $100 - p = 50$

**15**

Pick the right equation for the following statement:

'Sameer thinks of a number, divides it by 7 and then adds 12 to it. The answer he gets is 24.'

- $\frac{d}{7} + 12 = 24$      $7d + 12 = 24$      $\frac{d}{7} - 12 = 24$      $\frac{d}{12} + 7 = 24$

16

Choose the correct the representation of the following equation:

' Five times a number ( $m$ ) subtracted from 25 gives 40.'

- $25 - 5m = 40$      $40 - m = 25$      $5m - 25 = 40$      $m - 25 = 40$

17

Solve the following equation by using inverse operations:

$$\frac{3}{4} = \frac{1}{4} + q$$

- $\frac{3}{4}$      $\frac{2}{4}$      $\frac{4}{4}$      $\frac{4}{1}$

18

Solve for the value of  $y$ :

$$y + 4\frac{3}{5} = \frac{33}{5}$$

- 11    2     $\frac{56}{5}$     10

19

Solve for  $f$ :

$$\frac{f}{30} = \frac{6}{90}$$

- 18    27    9    2

20

Solve for ' $z$ ':

$$\frac{z}{3} = 2.4$$

- 6.4    8.4    7.2    1.2

21

Solve the given equation:

$$-12 + a = 34$$

- 22     $\frac{-17}{6}$      $\frac{17}{6}$     46

22

Which inverse operation will undo the operation 'Divide by 12'?

- Multiply by  $\frac{1}{12}$     Add -12    Divide by -12    Multiply by 12

23

Find out the solution to the following statement:

'The difference between  $c$  and 14 gives 18.'

- 4    32    -4    -32

24

One-fifth of three-fourth of a number  $x$  equals 18. What is the value of  $x$ ?

- 120    140    110    105

25

Which of the following equations has its solution as 2?

- $x + 4 = 2$      $x + 1 = 4$      $x + 2 = 4$      $x + 6 = 4$

26

Which of the following does not have its solution as -14?

- $a + 14 = 0$      $2b + 13 = -15$      $b - 24 = -10$      $6d = -42 \times 2$

27

8 less than the total number of students  $x$  is 30. Which of the following equations represents the statement?

- $8 - x = 30$      $30 - 8 = x$      $x + 30 = 8$      $x - 8 = 30$

28

Solve the following equation transposition:

$$x + 10 = 14$$

- 4    24    14    10

**29**

Solve the following equation transposition:

$$\frac{x}{4} = 30$$

- 110  90  70  120

**30**

Solve the following equation using transposition:

$$12.2x = 24.4$$

- $\frac{1}{2}$   2   $-\frac{1}{2}$   -2

**31**

Solve the following equation using transposition:

$$\frac{x}{121} = \frac{3}{11}$$

- 22  33  28  60

**32**

Solve the following equation using transposition:

$$6x + 3\frac{1}{2} = 10$$

- $\frac{4}{3}$    $\frac{31}{6}$   13   $\frac{13}{12}$

**33**

Find the solution for the following word problem:

'When a number is increased by 9 it gives 14.'

- 9  5  7  8

**34**

Find the solution for the following word problem:

'When 60 is added to one-tenth the product of 6 and a number, it gives 120.'

- 90  100  110  120

**35**

Find the solution for the following word problem:

'10 more than twice a number is 20.'

- 5    10    15    20

**36**

Which of the following is the correct equation for the given statement?

'When a number is divided by 15, it gives the sum of the number and 18.'

- $\frac{15}{x} = x + 18$      $\frac{18}{x} = x + 15$      $\frac{x}{15} = x + 18$      $\frac{x}{18} = x + 15$

**37**

'4 times the speed of the train equals double the speed of the helicopter.'

If the speed of the train is 250 km/hr, calculate the speed of the helicopter using a suitable equation.

- 250 km/hr    500 km/hr    750 km/hr    1000 km/hr

**38**

A cake shop cuts a cake into 12 slices. One slice costs Rs.20. Which equation would you use to find out the cost ' $x$ ' of the entire cake?

- $12x = 20$      $x = \frac{12}{20}$      $x = 12 \times 20$      $20x = 12$

**39**

Kavina wants to buy a dress costing Rs.740. Her parents agreed to give her Rs.200. She plans on saving Rs.90 a week. Find out the number of days it would take to buy the dress using a suitable equation.

- 42 days    54 days    45 days    35 days

**40**

What is the solution of the following equation?

$$13x + 3 = 29$$

- 2    3    4    5

41

The solution of the equation  $\frac{x}{4} + 10 = -4$  is:

- 40  56  -40  -56

42

Addition and \_\_\_\_ are two inverse operations.

- Multiplication  Division  Subtraction  All of the above

43

The value of  $x$  in the equation  $\frac{x}{2} = 9$  is:

- 7  11  18  20

44

The solution of the equation  $x + \frac{1}{2} = \frac{1}{2}$

- $\frac{1}{4}$   1  0  2

45

The correct representation of the following statement is:

'The sum of a number  $a$  and 12 equals 15.'

- $a + 12 = 15$    $a + 15 = 12$    $a - 12 = 15$    $a - 15 = 12$

46

Find out the solution of the following problem statement.

'The sum of a number  $b$  and 2 equals 5.'

- 2  3  4  5

47

7 times a number decreased by the sum of 1 and 5 equals 22. What is the number?

- 2  4  6  7

48

Find out the solution of the following equation:

$$-14 + m = 16$$



- 2    20    24    30

**49**

The cost  $b$  of a book is Rs.13 more than the cost of a pen. The cost of the pen is Rs.8 less than the cost  $r$  of a register. If the register costs Rs.80, find the cost of the book and then pen.

- Rs.75    Rs.85    Rs.100    Rs.1200

**50**

Find out the solution for the following equation:

$$-\frac{30}{x} = 15$$

- $\frac{1}{2}$     2     $-\frac{1}{2}$     -2

**51**

I am an integer. When you multiply me by 2 and subtract -10 from me, the result will be -6. Find out my value.

- 4    8    -4    -8

**52**

Which of the following equations does not have its solution as 3?

- $x + 15 = 18$      $5x + 6 = 21$      $15x = 45$      $6x = \frac{12}{6}$

**53**

Which of the following has its solution as  $\frac{1}{5}$ ?

- $5x + 10 = 35$      $\frac{x}{35} = \frac{1}{7}$      $x = \frac{125}{25}$      $\frac{x}{2} - \frac{1}{10} = 0$

**54**

Which of the following equations will give a negative value as its solution?

- $x + 15 = 30$      $3x + 15 = 12$      $2x = 6$      $x + 1 = 5$

**55**

Find out the value of  $a$  in the following equation:

$$\frac{a}{3} - 1 = 2$$

- 3    6    9    12

**56**

Choose the correct representation of the following statement:

'50 times the value of  $r$  equals the sum of 2 times  $r$  and 12.'

- $50r = 2r + 12$      $50r = 12r + 2$      $50r + 2r = 12$      $50r - 12r = 2$

**57**

Find out the value of  $y$  from the given equation:

$$4y + 12 = 15 + y$$

- 1    2    3    4

**58**

Which of the following statements is correct about the following equation?

$$x + 12 = \frac{140}{10}$$

- The solution will be a negative value.    The solution will be a proper fraction.  
 The answer will be an even number.  
 You will get the solution if you add -15 on both the sides.

**59**

Convert the following equation into a statement:

$$x + 20 = \frac{12}{5}$$

- The product of  $x$  and 20 equals the sum of 12 and 5.  
 The sum of  $x$  and 20 equals the quotient of 12 and 5.  
 The quotient of  $x$  and 20 equals the product of 12 and 5.  
 The difference of  $x$  and 20 equals the quotient of 12 and 5.

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