

Algebra Worksheet – 3

1. Number to be added on LHS of equation to find the value of x is $x - 20 = 15$.

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|-------|--------|
| a) 15 | b) -15 |
| c) 20 | d) -20 |

2. To get the value of y , _____ is to be multiplied on either side of the equation.

$$\frac{y}{5} = 15$$

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|-------|------------------|
| a) 15 | b) 5 |
| c) 75 | d) None of these |

3. $7x - 5 = 2x + 10$ find the value of x .

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| a) 5 | b) 2 |
| c) 10 | d) 3 |

4. In $\frac{p}{5} + \frac{p}{10} = 12$, the value of p is

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| a) 40 | b) 30 |
| c) 20 | d) 10 |

5. A number is multiplied by 6 and 12 is added to the product. If the result is 72, then find the number.

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| a) 12 | b) 10 |
| c) 6 | d) None of these |

6. In $\frac{2}{3}x - 2\frac{1}{2} = 3\frac{1}{2}$, the value of x is _____.

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| a) 7 | b) 8 |
| c) 9 | d) 10 |

7. If $x = y$, then $x + a =$ _____

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| a) y | b) $y + a$ |
| c) $y - a$ | d) None of these |

8. The side of a regular hexagon is l cm. Express the perimeter of the hexagon using l .

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|---------|------------------|
| a) $2l$ | b) $4l$ |
| c) $6l$ | d) None of these |

9. 4 is added to twice a number y and the sum is divided by 4. What is the correct form of expression?

a) $\frac{2y}{4} + 4$

b) $\frac{1}{2}y + 4$

c) $\frac{4+y}{4}$

d) $\frac{2y + 4}{4}$

10. Find the like terms

a) $2xy, 5xy$

b) $2x^2y, 3xy^2$

c) $3x, 6y$

d) None of these

11. Which of the following equation is monomials?

a) $x + y + z$

b) $-4xy$

c) $6x + 4$

d) $4a + 7b$

12. Which of the polynomials are having degree 3?

a) $a^4 + 2b^2 - 3$

b) $5a^3 - b^2 + 2$

c) $a^2 + b^2 + 2ab$

d) None of these

13. 3 times the sum of x and 5 equals 75. Find the value of x .

a) 25

b) 20

c) 15

d) 10

14. The length of a rectangular field is 6 m more than its breadth and the perimeter of the field is 84 m. Find the length and breadth of the field.

a) 24m, 16m

b) 22m, 18m

c) 24m, 18m

d) None of these

15. Find the value of the below mentioned polynomial when $y = 3$

$$3y^2 + 2y + 5$$

a) 28

b) 83

c) 48

d) 38