

Linear Equations Worksheet - 3

1. If $\frac{p-2}{p-3} = \frac{3}{5}$, then $p =$ _____.

a) 1

b) $\frac{1}{2}$

c) 2

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

2. If $\frac{5m}{6} = 25$, then $m =$ _____.

a) 20

b) 25

c) 30

d) 35

3. If $y(y+6) = y^2 + y + 25$, then $y =$ _____.

a) 5

b) 6

c) 7

d) 8

4. If $7(p-2) = 2(3p-4)$, then $p =$ _____.

a) 4

b) 5

c) 6

d) 7

5. If $(y-4)(2y+3) = 2y^2 + 3$, then $y =$ _____.

a) 3

b) -3

c) 4

d) None of these

6. If $\frac{y-4}{5} = \frac{y+3}{5} + \frac{y-4}{3}$, then find the value of y .

a) $\frac{4}{5}$

b) $\frac{-4}{5}$

c) $\frac{1}{5}$

d) $\frac{-1}{5}$

7. One fifth of a number is 5, then find the number.

a) 15

b) 20

c) 25

d) 30

8. Divide 120 into two parts, so that the greater part is 5 times the smaller part. What is the greater part?

a) 20

b) 50

c) 80

d) 100

9. The sum of three consecutive numbers is 93. Find the smaller number?

a) 33

b) 30

c) 31

d) 32

10. The sum of three consecutive even numbers is 66. Find the largest even number.

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|-------|-------|
| a) 20 | b) 22 |
| c) 24 | d) 26 |

11. The sum of three consecutive odd numbers is 81. Find the smaller number.

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|-------|-------|
| a) 20 | b) 25 |
| c) 30 | d) 35 |

12. If a number is increased by 25, then it becomes 75. What is the number?

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|-------|-------|
| a) 25 | b) 35 |
| c) 45 | d) 50 |

13. The difference between two numbers is 8. 5 times the smaller number plus larger number is 98. Find the larger number.

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|-------|------------------|
| a) 15 | b) 23 |
| c) 25 | d) None of these |

14. Ryan is 6 years older to her sister Viona. If the sum of their ages is 18 years, then what is Ryan's age?

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|-------|-------|
| a) 8 | b) 10 |
| c) 12 | d) 14 |

15. If a number is tripled and the result is increased by 8, then we get 98. Find the number.

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|-------|------------------|
| a) 30 | b) 20 |
| c) 10 | d) None of these |

16. Julie is 6 years older than her brother. In three years, she will be twice as old her brother. How old is Julie now?

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|------|-------|
| a) 3 | b) 6 |
| c) 9 | d) 12 |

17. A number exceeds it's three fifth by 32. Find the number.

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|-------|-------|
| a) 70 | b) 80 |
| c) 60 | d) 90 |

18. When 15 is added to twice a number, the result is 5 more than thrice the number. Find the number.

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|-------|------|
| a) 10 | b) 5 |
| c) 15 | d) 7 |

19. Solve the following equation.

$$2(y - 5) + 3(y - 2) = 11 + 2(y - 3)$$

a) 3

b) 5

c) 6

d) 7

20. The angle of a triangle are in the ratio 2 : 3 : 4. Find all the three angles.

a) $20^\circ, 30^\circ, 40^\circ$

b) $40^\circ, 60^\circ, 90^\circ$

c) $40^\circ, 60^\circ, 80^\circ$

d) $40^\circ, 50^\circ, 80^\circ$