

108 DAYS ONLINE COACHING TEST FOR MISSION 2020-(DAY 104)-[11-12-2020~friday]

LINEAR AND QUADRATIC EQUATIONS



NAME OF THE CANDIDATE *

M4

PLACE OF THE CANDIDATE *

PATHANAMTHITTA

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1. Which of the following is not a linear equation in one variable? *

1 point

$33z+5$

$33(x+y)$

$33x+5$

$33y+5$

2. The perimeter of the rectangle is 20cm. If the length of the rectangle is 6cm, then its breadth will be: *

1 point

4 cm

6 cm

10 cm

16 cm

3. The age of the father is three times the age of the son. If the age of the son is 15 years old, then the age of the father is: *

1 point

50 years

55 years

40 years

45 years

4. The difference between two whole numbers is 66. The ratio of the two numbers is 2: 5. The two numbers are: *

- 60 and 6
- 100 and 33
- 110 and 44
- 99 and 33

5. Rakshita has only Rs. 1 and Rs. 2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is Rs 75, then the number of Rs.1 and Rs.2 coins is, respectively: *

- 35,15
- 35,20
- 15,35
- 25,25

6. The angles of a cyclic quadrilateral ABCD are: angle A = $(6x + 10)$ degree, angle B = $5x$ degree, angle C = $(x + y)$ degree, angle D = $(3y - 10)$ degree. Then the value of x and y are: *

- 20, 30
- 40, 10
- 44, 15
- 15, 15

7. A shopkeeper gives books on rent for reading. She takes a fixed charge for the first two days, and an additional charge for each day thereafter. Reema paid Rs. 22 for a book kept for six days, while Ruchika paid Rs 16 for the book kept for four days, then the charge for each extra day is: 1 point

- Rs 5
- Rs 4
- Rs 3
- Rs 2

8. Solve $2x+3y=13$, $5x+2y=16$, find x, y *

1 point

- 2, 3
- 2, 1
- 3, 1
- 1, 3

9. Solve $3x-5y=9$, $2x+7y=6$, find x, y *

1 point

- 1, 3
- 0, 2
- 3, 0
- 2, 1

10. Solve $3x+7y=2$, $4x+21y=6$, find x , y *

1 point

- 1, 2/7
- 0, 2/7
- 1/7, 0
- 2/7, 3

11. Solve it. *

1 point

I. $5x^2 + 11x - 12 = 0$

II. $4y^2 - 13y - 12 = 0$

- $x < y$
- $x > y$
- $x = y$
- relation between x and y cannot be established

12. Solve *

1 point

I. $3x^2 + 19x + 30 = 0$

II. $3y^2 - 20y - 32 = 0$

- $x < y$
- $x > y$
- $x = y$
- relation between x and y cannot be established

13. Solve *

1 point

I. $x^2 - 4\sqrt{7}x + 21 = 0$

II. $2y^2 - 8\sqrt{5}y - 50 = 0$

- $x < y$
- $x > y$
- $x = y$
- relation between x and y cannot be established

14. Solve *

1 point

I. $x^2 - 52x + 667 = 0$

II. $y^2 + 8y - 33 = 0$

- $x < y$
- $x > y$
- $x = y$
- relation between x and y cannot be established

15. Solve *

1 point

I. $x^2 - 13\sqrt{2}x + 60 = 0$

II. $y^2 + 3\sqrt{5}y - 20 = 0$

- $x < y$
- $x > y$
- $x = y$
- relation between cannot be established

16. Find the value of x and y from the given equation: $3x + 2y = 4$, $8x + 5y = 9$. *

1 point

- 2, 5
- 2, 5
- 2, 3
- 1, 3

17. If one-third of a two-digit number exceeds its one-fourth by 8, then what is the sum of the digits of the number? *

1 point

- 6
- 13
- 15
- 17

18. If $6x - 5y = 13$, $7x + 2y = 23$ then $11x + 18y = ?$ *

1 point

- 15
- 51
- 33
- 15

19. What is the sum of two numbers whose differences is 45 and the quotient of the greater number by the lesser number is 4? * 1 point

- 100
- 90
- 80
- 75

20. If a two-digit number is added to a number obtained by reversing the digits of the given number, then the sum is always divisible by which one of the following numbers? * 1 point

- 7
- 9
- 10
- 11

THANK YOU!!!

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