



MATHEMATICS TALENT HUNT 2023

Organized by : The Pi Group of Mathematics (TPGM), Cooch Behar

Registration No. – S0031696 of 2022-23

Class – V

Full Mark : 100

Time : 2 Hours.

Instructions

1. There are 50 question of 2 marks each.
2. Put tick mark ($\sqrt{}$) only on the correct alternative against each question in your answer sheet.
3. There is no negative marking.

41. 20% of $\square = 20$. Choose the correct option.

- (a) 100 (b) 200 (c) 1 (d) 40

42. The HCF of $2^2 \times 3^3$ and $2^3 \times 3^2$ is

- (a) $2^3 \times 3^3$ (b) $2^2 \times 3^2$ (c) 2×3 (d) none of these

43. $(15\% \text{ of } 75) + (60\% \text{ of } 80) = ?$

- (a) 59.25 (b) 60 (c) 59.75 (d) 59

44. What is the interest of Rs. 1550 at the rate of 15% yearly for 2 years?

- (a) 465 (b) 310 (c) 46.5 (d) None of these

45. The monthly income of a factory worker is Rs. 2550. What is his yearly income?

- (a) 1875 (b) 2250 (c) 27000 (d) 72000

46. $60\% = \frac{3}{?}$, choose the correct option.

- (a) 2 (b) 3 (c) 4 (d) 5

47. The speed of a car is 40 km/h. The car will take _____ hours to cover a distance of 220 km. Choose the correct option.

- (a) 5.5 hours (b) 6.5 hours (c) 4.5 hours (d) 5 hours

48. $0.003 \div \square = 3$. Fill in the blank with correct option.

- (a) 100 (b) 1000 (c) 0.01 (d) 0.001

49. The area of a square is 4 sq cm. If the side is doubled, the area becomes

- (a) 8 sq cm (b) 16 sq cm (c) 2 sq cm (d) 32 sq cm

50. If $x = 3, y = 0$ then the value of $4x^2y + 2xy$ is

- (a) 6 (b) 0 (c) 3 (d) 1

← x →

1. 15% of 225 is

- (a) 33.75 (b) 15 (c) 30 (d) 33.25

2. CP = Rs. 60, Profit = 5%, SP is

- (a) 60 (b) 63 (c) 57 (d) 60

3. $4 : 9 = x : 36$, x is

- (a) 8 (b) 12 (c) 16 (d) 20

4. A train covers a distance of 324 km in 4 hours. The speed of the train is -

- (a) 100 km/h (b) 40 km/h (c) 1296 km/h (d) 80 km/h

5. 18 km/h = _____ m/s. What will be in the blank?

- (a) 5 (b) 6 (c) 7 (d) 8

6. $3^8 \times 7^0 = ?$

- (a) 6561 (b) 24 (c) 45927 (d) 168

7. The average of 5.3, 5.2 and 5.4 is

- (a) 0 (b) 5.4 (c) 5.2 (d) 5.3

8. Average of 8 numbers is 45. The total of the numbers is

- (a) 360 (b) 180 (c) 90 (d) none

9. If $2x = 6$ then $x = ?$

- (a) 12 (b) 2 (c) 3 (d) 0

10. If $x = 4$ and $y = 3$ then the value of $2xy$ is

- (a) 24 (b) 12 (c) 8 (d) 243

11. 2 hours and 18 minutes is equal to

- (a) 8280 seconds (b) seconds (c) 2880 seconds (d) none

12. Area of a square whose side is 13 cm is

- (a) $961cm^2$ (b) $169cm^2$ (c) $13cm^2$ (d) $26cm^2$

13. $\frac{12}{18} = \frac{?}{90}$, the number in the blank is - (a) 5 (b) 24 (c) 60 (d) 9

14. 85% of 1km is
 (a) 850 metres (b) 85 metres (c) 8500 metres (d) none
15. The ratio of 2.25 km and 6.25 km is -
 (a) 25 : 9 (b) 5 : 3 (c) 9 : 25 (d) 3 : 5
16. The value of $2^4 \times 3^2 \times 5$ is
 (a) 720 (b) 30 (c) 240 (d) 8
17. 1.01×1.01 is -
 (a) 1.111 (b) 0.001 (c) 1.0001 (d) 1.0201
18. The average of first five multiples of 5 is
 (a) 5 (b) 10 (c) 25 (d) 15
19. The value of $0.1 - 0.017$ is
 (a) 0.083 (b) 0.16 (c) 0.03 (d) 0.038
20. In a rectangle area = 84 sq cm, length = 12 cm, breadth is
 (a) 12 (b) 1008 (c) 5 (d) 7
21. Identify the least number when divided by 20, 25 and 50 leave the remainder 9 in each case.
 (a) 91 (b) 100 (c) 109 (d) 209
22. How much should be added to $\frac{9}{11}$ to get 2.
 (a) $\frac{15}{11}$ (b) $\frac{14}{11}$ (c) $\frac{13}{11}$ (d) $\frac{12}{11}$
23. If the following numbers are arranged in ascending order then what will be the middle digit of the number which is exactly in the middle? 283, 975, 493, 725, 327, 423, 259
 (a) 2 (b) 3 (c) 6 (d) 7
24. A bus travelled 12 km east, then 5 km toward south and then 12 km toward west. How far is it now from starting point?
 (a) 3 km (b) 12 km (c) 27 km (d) 5 km
25. What percentage of 3 m is 12 cm?
 (a) 3% (b) 12% (c) 4% (d) 9%
26. A square piece of paper has a perimeter of 36 cm. What is the area of a square piece of paper with twice the perimeter?
 (a) 62 sq cm (b) 72 sq cm (c) 169 sq cm (d) 324 sq cm
27. When we convert 25% into decimal fraction, we get
 (a) 0.225 (b) 0.25 (c) 0.15 (d) 1.25

28. The average of four numbers is 12 and the average of another five numbers is 3. The average of all these nine numbers taken together will be
 (a) 7 (b) 9 (c) 15 (d) 22
29. The sum of $180 + (-70) + (-40) + 50$ is
 (a) 110 (b) 120 (c) 320 (d) 240
30. How many rectangular pieces of wood of size 25 cm X 20 cm X 10 cm can be cut from a log of wood of size 3 m X 5 m X 50 cm, if there is no waste?
 (a) 150 (b) 1500 (c) 15000 (d) 3000
31. The sum of $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5}$ is
 (a) $\frac{57}{60}$ (b) $\frac{67}{50}$ (c) $\frac{77}{60}$ (d) $\frac{87}{60}$
32. If the HCF and LCM of two numbers are 30 and 180 respectively. If one number is 60 then, other number is
 (a) 30 (b) 60 (c) 180 (d) 90
33. Gopal reads $\frac{3}{5}$ of a book. He find that there are still 80 pages left to be read. The total number of pages in the book is
 (a) 100 (b) 200 (c) 300 (d) 400
34. A book is bought for Rs. 20 and sold for Rs. 16. The loss percentage is
 (a) 15% (b) 40% (c) 25% (d) 20%
35. A pair of angle are called supplementary to each other, if the sum of their measures is
 (a) 90° minus the given angle (b) 90° (c) 180° (d) 180° minus 90°
36. An arc is _____.
 (a) any part of the radius (b) any part of the diameter (c) any part of chord
 (d) any part of circumference
37. Of the following cases, construction of a triangle is not possible?
 (a) 7 cm, 7 cm, 13 cm (b) 10 cm, 10 cm, 20 cm (c) 5 cm, 12 cm, 14 cm
 (d) 3 cm, 6 cm, 7 cm
38. What is the sum of the reciprocals of 7 and $\frac{1}{9}$?
 (a) $\frac{7}{64}$ (b) 16 (c) $\frac{6}{67}$ (d) $\frac{64}{7}$
39. 48949 is divisible by - (a) 5 (b) 3 (c) 4 (d) none
40. To get a quotient of 700 and a remainder of 48, what number should be divided by 100?
 (a) 748 (b) 70048 (c) 70000 (d) 7048