



INSTITUTE OF MATHEMATICS EDUCATION

MATHS APTITUDE TEST – 2026 (Primary Level)

Std. : V and VI

Question Paper

Time : 2 Hours

Date : 01.08.2026

Total Marks : 100

Instructions : 1) Use separate answer sheet to mark answers. 2) First read question carefully, get the answer and darken the circle of respective correct alternative on answer sheet. 3) **No change is allowed, so think twice and then darken the appropriate circle.** 4) Note that half circle darkened or more than one circle darkened, cross or tick on the circle, will not be given marks. 5) If questions are not attempted, marks will not be given. 6) **You can use separate paper for rough work.**

Q.1: How many bundles of ₹ 500 denominations having 100 notes each will make one million rupees.

- A) 200 B) 20 C) 2 D) 12

Q.2: If $1729 = 19 \times 91$, then $19 \times 92 = ?$

- A) 1729 + 19 B) 1729 + 91
C) 1738 D) Any other

Q.3: Find 22nd odd number before 222.

- A) 177 B) 167 C) 187 D) 179

Q.4: Find number of factors of 88.

- A) 6 B) 7 C) 8 D) 9

Q.5: Find L.C.M. of 102 and 255.

- A) 550 B) 545 C) 510 D) 520

Q.6: Put correct sign in the box ($<$, $>$, $=$) $\frac{7}{13} \square \frac{5}{11}$

- A) $>$ B) $<$ C) $=$ D) none

Q.7: $2.37 - 0.5139 = ?$

- A) 1.5816 B) 1.8561
C) 0.8561 D) 0.5816

Q.8: (2 gram and 3 milli gram) $\times$ 2000 = How many kilograms?

- A) 4.6 B) 40.6 C) 40.006 D) 4.006

Q.9: In Roman numerals MD – CD = ?

- A) MC B) DC C) LM D) XXX

Q.10: A train departed at quarter past eight in the morning and reached the destination at quarter to six the next morning. The journey was of _____ hrs..

- A) 21.30 B) 21.5 C) 21.05 D) 21.45

Q.11: If $[5 \times (7x + 1)] = 75$, then $x = ?$

- A) 1 B) 3 C) 2 D) 4

Q.12: If 14th May 1999 was Friday, then Independence Day that year was on

- A) Thursday B) Friday
C) Wednesday D) Sunday

Q.13: Simplify: $[100 - (5 \times 15 + 3 \times 5)] \div 2 = ?$

- A) 12 B) 5 C) 10 D) 21

Q.14: One dozen tables cost ₹ 54000. Then find the cost of 7 such tables (in Rupees).

- A) ₹ 28560 B) ₹ 35540
C) ₹ 31500 D) ₹ 27690

Q.15: Perimeter of a rhombus and square is same. If perimeter of a rhombus is 32 cm, then find area of the square (in sq. cm.).

- A) 64 B) 144 C) 84 D) 80

Q.16: A cupboard is purchased for ₹ 18000/- and sold with 10.5% profit. Then find its selling price. (in Rupees)

- A) ₹ 19530 B) ₹ 19010 C) ₹ 19550 D) ₹ 19890

Q.17: If 50 % of $x = 150$ % y , then $x = \underline{\hspace{1cm}} y$?

- A) 3 B) 0.3 C) 3.3 D) 1.3

Q.18: What is the difference between the place values of underlined digits in the number 456789?

- A) 49880 B) 48980 C) 49920 D) 48890

Q.19: The Quotient and Remainder in $690690 \div 69$ are

- A) 100100, 9 B) 10010, 0 C) 1010, 1 D) none

Q.20: a, b and c are distinct positive integers. If $(a \times b)$ is an odd integer and $(b + c)$ is an even integer with $a > b > c$, then

- A) $(a + c) - b$ is even B) $(a - c) + b$ is even
C) $(b - c)^2 + 2a$ is odd D) $(c - a)^2 \times b$ is even

Q.21: What should be the digit in the place of * in the number 6*249 so that it is divisible by 11?

- A) 4 B) 3 C) 2 D) 1

Q.22: How many possible pairs of distinct positive integers are there whose L.C.M. is 18?

- A) 5 B) 7 C) 6 D) 4

Q.23: Solve: $1\frac{2}{5} + 1\frac{3}{10} + 1\frac{7}{20} =$

- A) $4\frac{1}{20}$ B) 3.20 C) 4.20 D) $\frac{41}{20}$

Q.24: Convert $\frac{8}{15}$ into non-terminating recurring decimal fraction.

- A) 0. $\overline{7}$ B) 0. $\overline{81}$ C) 0. $\overline{31}$ D) 0.5 $\overline{3}$

Q.25: (180 deca gram) $\div$ 8 = How many centi gram?

- A) 2250 B) 25250 C) 22550 D) 22500

Q.26: How will you write 89 in roman numerals?

- A) LXXXIX B) LXXIX C) XIX D) IXLL

Q.27: $3\frac{2}{5}$ hrs. + 156 min. + 3.5 hrs. = _____ hrs.?

- A) 9.30 B) 9.5 C) 9.8 D) 9

Q.28: Sunil is older than Anil by 5 years. Sunil is two times as old as Sharad. Sharad is younger than Anil by 3 years. Find sum of their present ages (in years).

- A) 45 B) 26 C) 35 D) Can't decide

Q.29: Riya's birthday is on 31st December. If 1st January 2008 was Tuesday, then on what day Riya celebrated her birthday in 2009?

- A) Wednesday B) Friday
C) Saturday D) Thursday

Q.30: Simplify:

$$\{13431 \div [(37 \times 3)]\} - [(30 - 19) \times (7 + 4)]$$

- A) 121 B) 0 C) 11 D) 111

Q.31: Cost of 6 pencils is ₹ a and cost of 4 pens is ₹ b. Then find the cost of x dozen pencils and y dozen pens in rupees.

- A) $2ax - 3by$ B) $3ax + 2by$
C) $2ax + 3by$ D) $3ax - 2by$

Q.32: A garden is in the shape of an equilateral triangle. Arun runs along the periphery of the garden and covers distance of 1.8 km in 5 rounds. Find the length of one side of the garden.

- A) 120 m B) 90 cm C) 150 m D) 180 m

Q.33: An article was purchased for ₹ a and got sold by making a profit of ₹ b. Then find % profit.

- A) $\frac{100b}{a}$ B) $\frac{100a}{(a+b)}$
C) $\frac{100}{(a+b)}$ D) $\frac{100(a+b)}{b}$

Q.34: If a% of b + b% of a = c% of d, then d = ?

- A) $\frac{ab}{c}$ B) $a + b + c$
C) $\frac{abc}{100}$ D) $\frac{2ab}{c}$

Q.35: Which of the following pair of numbers, is a pair of coprime numbers?

- A) 7, 1001 B) 7, 203 C) 7, 111 D) 17, 306

Q.36: Find sum of all factors of 357.

- A) 575 B) 576 C) 219 D) 525

Q.37: If 'a' and 'b' are the G.C.D. and L.C.M. respectively of the two numbers 'x' and 'y' such that $x = ap$ and $y = aq$, where p and q are natural numbers, then

- A) $x \times y = a \times b$ B) $b = a \times p \times q$
C) Both A) & B) D) None of these

Q.38: $\frac{a}{73} + \frac{a}{73} = \frac{120}{292}$ and $\frac{b}{89} + \frac{b}{89} + \frac{b}{89} + \frac{b}{89} = \frac{88}{178}$, then find a + b

- A) 22 B) 26 C) 23 D) 29

Q.39: If $30030 \div 30 = 1001$, then $300.30 \div 1.001 = ?$

- A) 300 B) 3000 C) 30 D) 30000

Q.40: 250 hecto liter + 25000 liter + 50000 centi liter = _____ Kilo liter

- A) 225.5 B) 75.5 C) 25.05 D) 50.5

Q.41: In the evening if the minute hand is on 6 and hour hand is between 5 and 6, then how much time is left for midnight of the same date?

- A) 6.5 hrs. B) 6.30 hrs.
C) 5.5 hrs. D) 5.45 hrs.

Q.42: An equilateral triangle ABC is drawn. By joining the mid points of sides another equilateral triangle PQR is drawn. This process is repeated once more to get another equilateral triangle XYZ. If area of the equilateral triangle XYZ is $a \text{ cm}^2$, then what is the area of the equilateral triangle ABC?

- A) 8a B) 16a C) 12a D) 4a

Q.43: 75 toys were purchased at the rate of ₹ 50 per toy and were sold for a total of ₹ 5625. The overall transaction resulted in

- A) 25% loss B) 33.33 % profit
C) 50 % profit D) 12.5% loss

Q.44: A chessboard consists of 64 squares of equal area. If $18\frac{3}{4}\%$ squares are occupied by pawns and 12.5% squares are occupied by other pieces, then how many squares are empty?

- A) 34 B) 40 C) 28 D) 44

Q.45: Find the least number by which 1980 can be multiplied to get a square number,

- A) 35 B) 55 C) 45 D) 66

Q.46: The number of positive integers less than 50 having exactly 2 positive factors other than 1 and itself are

- A) 15 B) 5 C) 9 D) 13

47. If $\frac{5x}{1 + \frac{1}{1 + \frac{x}{1-x}}} = 1$, then find the value of 'x'.

- A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) 1 D) $\frac{5}{3}$

Q.48: The cost of 12 pens and 7 pencils is ₹ 233. If the cost of a pen decreases by ₹ 1.5 and the cost of a pencil increases by ₹ 1, then the cost of 2 pens and 3 pencils is ₹ 48. What is the original cost of 4 pens and 3 pencils?

- A) ₹ 77 B) ₹ 81 C) ₹ 74 D) ₹ 73

Q.49: Corners are cut off from equilateral triangle T to produce a regular hexagon H. Find the ratio of area of H to area of T.

- A) 5:6 B) 3:4 C) 2:3 D) 4:5

Q.50: A dishonest shopkeeper professes to sell at cost price but uses a false weight of 900 grams instead of 1 kg. Find his profit percentage.

- A) 9.9% B) 10.01% C) 19.91% D) 11.11%