

42. Greatest number which divides 926 and 2313, leaving 2 and 3 remainders respectively is:

- (a) 52
- (b) 54
- (c) 152
- (d) 154.

43. A single discount equivalent to a discount series 15% and 5% is: 32%

- (a) 32%

- (b) 19.25%
- (c) 10%
- (d) 8.5%.
44. By selling a cycle for ₹ 2,345, a student loses 19%. His cost price is nearly:
- (a) ₹ 4,000
- (b) ₹ 5,000
- (c) ₹ 3,000
- (d) ₹ 3,500.
45. Diagonals of a rhombus are 1 meter and 1.5 meter in lengths. The area of the rhombus is:
- (a) 0.75 m^2
- (b) 1.5 m^2
- (c) 1.5 m^2
- (d) 0.375 m^2 .
46. An angle in a semi-circle is:
- (a) 180°
- (b) 90°
- (c) $90^\circ/2$
- (d) 180°
47. In a school for mid-day meal food is sufficient for 250 students for 33 days, if each student is given 125 gm meals. 80 more students joined the school. If same amount of meal is given to each student, then the food will last for:
- (a) 20 days
- (b) 40 days
- (c) 30 days
- (d) 25 days.
48. In a school of 500 students, 102 students can read Hindi and Tamil both, 200 students can read only Hindi. The students who can read only Tamil are:
- (a) 198
- (b) 402
- (c) 302
- (d) 300.
49. The value of k for which $kx + 3y - k + 3 = 0$ and $12x + ky = k$, have infinite solutions, is:
- (a) 0
- (b) -6
- (c) 6
- (d) 1.
50. Table shows the daily expenditure on food of 25 households in a locality:
- | Expenditure (₹) | 100-150 | 150-200 | 200-250 | 250-300 | 300-350 |
|-----------------|---------|---------|---------|---------|---------|
| Households | 4 | 5 | 12 | 2 | 2 |
- The mean daily expenditure on food is:
- (a) ₹ 11.10
- (b) ₹ 161
- (c) ₹ 211
- (d) ₹ 261.

51. A box contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. The number of blue marbles in the jar is:
- 13
 - 12
 - 16
 - 8.
52. The population of a city is 250 thousand. It is increasing at the rate of 2% every year. The growth in the population after 2 years is:
- 2500
 - 10000
 - 252000
 - 10100.
53. If a point (x, y) in a OXY plane is equidistant from $(-1, 1)$ and $(4, 3)$ then:
- $10x + 4y = 23$
 - $6x + 4y = 23$
 - $-x + y = 7$
 - $4x + 3y = 0$.
54. Sum of first 15 multiples of 8 is:
- 960
 - 660
 - 1200
 - 1060
55. A rod of 2 cm diameter and 30 cm length is converted into a wire of 3 metre length of uniform thickness. The diameter of the wire is:
- $\frac{2}{10}$ cm
 - $\frac{2}{\sqrt{3}}$ など
 - $\frac{1}{\sqrt{3}}$ など
 - $\frac{1}{10}$
56. Two straight poles of unequal length stand upright on a ground. The length of the shorter pole is 10 metres. A pole joins the top of the two vertical poles. The distance between the two tops is 5 metres. The distance between the poles along the ground is 4 metre. The area thus, formed by the three poles with the ground is:
- 52 m^2
 - 46 m^2
 - 20 m^2
 - 50 m^2 .
57. Pipe A can fill a tank in 10 hours and Pipe B can fill the same tank in 12 hours. Both the pipes are opened to fill the tank and after 3 hours Pipe A is closed. Pipe B will fill the remaining part of the tank in:
- 5 hours
 - 4 hours
 - 5 hours 24 minutes
 - 3 hours.

(b) 800

(c) 900

(d) 8,000.

If selling price of 10 articles is equal to cost price of 11 articles, then gain is:

(a) 8%

(b) 9%

(c) 8.5%

(d) 10%.

(a)

(a)

(a)

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