

Section : Numerical Aptitude

Q.1 By selling an article for ₹300, a person incurred a loss of 6.25%. What is his profit, if it is sold for ₹352?

- Ans**
-  1. ₹38
 -  2. ₹42
 -  3. ₹32
 -  4. ₹28

Q.2 The ratio of spirit and water in solutions in vessels A and B are 3 : 4 and 5 : 9, respectively. The contents of A and B are mixed in the ratio 2 : 3. What is the ratio of water and spirit in the resulting solution?

- Ans**
-  1. 43 : 27
 -  2. 39 : 16
 -  3. 8 : 13
 -  4. 1 : 3

Q.3 When 6892, 7105 and 7531 are divided by the greatest number x , then the remainder in each case is y . What is the value of $(x - y)$?

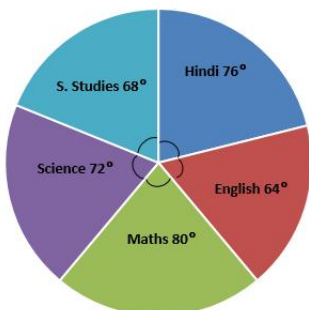
- Ans**
-  1. 123

✓ 2. 137

✗ 3. 147

✗ 4. 113

Q.4 The given Pie Chart (angles are not as per any chosen scale) presents the marks scored by Amit in five subjects.
Maximum marks in each subject = 100.
Total score of Amit = 450.



What is the difference between the marks scored by Amit in Hindi and Maths?

Ans ✓ 1. 5

✗ 2. 10

✗ 3. 8

✗ 4. 4

Q.5 Five years ago, the ratio of the ages of A and B was 3 : 4. Five years from now, the ratio of their ages will be 4 : 5. What is the ratio of A and B, 10 years from now?

Ans ✓ 1. 9 : 11

✗ 2. 6 : 7

✗ 3. 5 : 6

✗ 4. 7 : 9

Q.6 A sum of ₹9000 amounts to ₹13356 at a certain rate percent per annum in $4\frac{2}{5}$ years at simple interest. What will be the simple interest on the same sum at double the rate for $2\frac{1}{3}$ years?

Ans ✗ 1. ₹4640

✗ 2. ₹4760





✗ 3. ₹4260

✓ 4. ₹4620

Q.7 A shopkeeper allows 10% discount on the marked price of an article and still gains 17%. If he gives 15% discount on the marked price, then his profit percent is:

- Ans**
-  1. 12
 -  2. 10.5
 -  3. 12.5
 -  4. 10

Q.8 The height of a cone is equal to its base radius and its volume is $72\pi \text{ cm}^3$. What is its curved surface area in cm^2 ?

- Ans**
-  1. $72\sqrt{2}\pi$
 -  2. $36\sqrt{2}\pi$
 -  3. $48\sqrt{2}\pi$
 -  4. $54\sqrt{2}\pi$

Q.9 By selling 30 articles, a shopkeeper gains the selling price of 9 articles. His gain percent is:

- Ans**
-  1. 30
 -  2. 39
 -  3. $42\frac{6}{7}$
 -  4. $40\frac{3}{7}$

Q.10 A wire, in the form of a circle, encloses an area 3118.5 cm^2 . It is now bent to form a rectangle whose length and breadth are very nearly in the ratio 7 : 4. The length of the rectangle, in cm, is:

(Take $\pi = \frac{22}{7}$)

- Ans**
-  1. 56
 -  2. 49
 -  3. 70
 -  4. 63

Q.11 The value of

$$1\frac{2}{3} \div \left\{ \frac{3}{7} \text{ of } \frac{14}{5} \times 1\frac{2}{3} - \left(3\frac{1}{2} - 2\frac{1}{6} \right) \right\} + \frac{1}{2} \div \frac{3}{2} \text{ of } \frac{1}{2} \text{ is:}$$

Ans

✓ 1. $3\frac{1}{6}$

✗ 2. $2\frac{1}{2}$

✗ 3. 1

✗ 4. $1\frac{2}{3}$

Q.12 The heights (in cm) of students in a group are given below:

Height	No. of Students
155	9
153	3
154	10
150	7
156	6
151	12
152	3

What is the median height of students?

Ans ✗ 1. 154.5 cm

✓ 2. 153.5 cm

✗ 3. 154 cm

✗ 4. 153 cm

Q.13 The number of students in classes A and B are 60 and 70, respectively. The average score in mathematics of students in B is 57 and that of all students in A and B is 63. What is the average score of students in A?

Ans ✗ 1. 69

✓ 2. 70

✗ 3. 68

✗ 4. 71

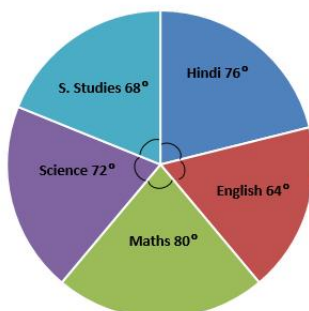
Q.14 A copper wire of radius 0.5 mm and length $42\frac{2}{3}$ m is melted and converted into a sphere of radius R cm. What is the value of R?

- Ans**
- ☒ 1. 3
 - ☒ 2. 2
 - ☒ 3. 1.5
 - ☒ 4. 1.8

Q.15 12% वार्षिक दर से 2 वर्षों के लिए ₹15625 की राशि पर चक्रवृद्धि ब्याज कितना है, यदि ब्याज को 8-माह पर संयोजित किया जाता है?

- Ans**
- ☒ 1. ₹3075
 - ☒ 2. ₹4058
 - ☒ 3. ₹3675
 - ☒ 4. ₹4088

Q.16 The given Pie Chart (angles are not as per any chosen scale) presents the marks scored by Amit in five subjects. Maximum marks in each subject = 100. Total score of Amit = 450.



In how many subjects, did Amit score more than his average score?

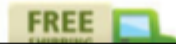
- Ans**
- ☒ 1. 2
 - ☒ 2. 3
 - ☒ 3. 1
 - ☒ 4. 4

Q.17



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A और B ने क्रमशः X और Y से एक ही समय पर विपरीत दिशा में चलना शुरू किया। मिलने के बाद, A और B को Y और X पर पहुंचने में क्रमशः 2.7 घंटे और 1.2 घंटे लगे। यदि B की गति 48 km/h है, तो A की गति (km/h में) कितनी है?

- Ans  1. 32
 2. 36
 3. 40
 4. 30

Q.18 36 men and 48 women can do a certain work in one day whereas 6 men and 12 women can do it in 5 days. The number of women required to do the same work in 8 days is:

- Ans  1. 10
 2. 15
 3. 18
 4. 12

Q.19 There are three positive numbers. If the average of any two of them is added to the third number, the sums obtained are 68, 74 and 98. What is the average of the smallest and the greatest of the given numbers?

- Ans  1. 46
 2. 48
 3. 47
 4. 52

Q.20 The value of $72 \div 6$ of $12 + 4 \times (5 - 3)$ of $2 \div 4 - 2$ is:

- Ans  1. 5
 2. 4
 3. 0
 4. 3

Q.21 x is the 4th proportional to 12, 16 and 5; and 20, y , 15, 21 are in proportion. Then the value of $(6x - y)$ is:

- Ans  1. 9
 2. 18

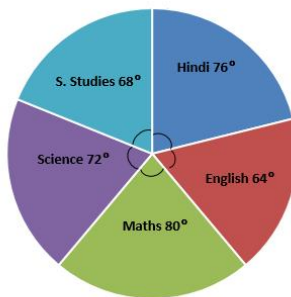
✗ 3. 13

✓ 4. 12

Q.22 A is 25% more than B while B is 20% less than C and C is 10% more than D. Which of the following is not true?

- Ans** ✓ 1. B is 22% less than A
✗ 2. A is 10% more than D
✗ 3. B is 12% less than D
✗ 4. A=C

Q.23 The given Pie Chart (angles are not as per any chosen scale) presents the marks scored by Amit in five subjects.
Maximum marks in each subject = 100.
Total score of Amit = 450.



The total marks scored by Amit in English and S. Studies is what percent (correct to one decimal place) more than the marks scored by him in Maths?

- Ans** ✓ 1. 65
✗ 2. 77.8
✗ 3. 72.4
✗ 4. 68.3

Q.24 A can complete one-third of a work in 5 days and B can do $\frac{2}{5}$ th of the same work in 10 days. They work together for 6 days. The remaining work is completed by C in 18 days. C alone will do the same work in:

- Ans** ✓ 1. 50 days
✗ 2. 30 days
✗ 3. 25 days
✗ 4. 45 days

Q.25 The speed of a boat in still water is 15 km/h. The speed of the current is 3 km/h. In how much time (in hours) will the boat travel a distance of 54km upstream and the same distance downstream?

Ans

✓ 1. $7\frac{1}{2}$

✗ 2. 7

✗ 3. 6

✗ 4. $6\frac{1}{2}$



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