Section : **Numerical Aptitude**

Q.1 If the volume of a cube is $81\sqrt{3}cm^3$, then its total surface area is:

Ans ✗ 1. $166\ cm^2$

✗ 2. $152\ cm^2$

✗ 3. $164\ cm^2$

✓ 4. $162\ cm^2$
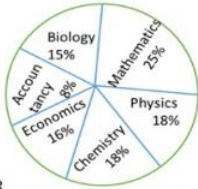
Question ID : **65497815871**
Chosen Option : **4**

Q.2 A and B together can do a piece of work in 24 days. B and C together can do it in 36 days. If A is thrice as good a workman as C, in how many days can B alone do the work?

Ans ✓ 1. 48 days

✗ 2. 36 days

✗ 3. 45 days

✗ 4. 40 days

Question ID : **65497815856**
Chosen Option : **1**

Q.3 Study the following pie chart that shows the percentage-wise distribution of teachers who teach six different subjects, and answer the question given below.

Total number of teachers = 1600

If $\frac{3}{8}$ of the teachers who teach Chemistry are females, then the number of male Chemistry teachers is what percentage of the total number of teachers who teach Mathematics?

Ans
- ✗ 1. 55%
- ✓ 2. 45%
- ✗ 3. 40%
- ✗ 4. 60%

Question ID : **65497815878**
Chosen Option : **2**

Q.4 A person travels equal distances at speeds of 5 km/h, 8 km/h and 10 km/h and takes a total time of 2 hours and 33 minutes. The total distance travelled by him was:

Ans
- ✓ 1. 18 km
- ✗ 2. 10 km
- ✗ 3. 5 km
- ✗ 4. 8 km

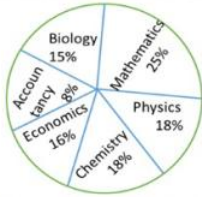Question ID : **65497815858**
Chosen Option : **1**

Q.5 The sum of three numbers is 272. If the ratio between the first and second is 3 : 5 and that between the second and third is 5 : 8, then the third number is:

Ans
- ✓ 1. 136
- ✗ 2. 142
- ✗ 3. 126
- ✗ 4. 236

Question ID : **65497815867**
Chosen Option : **1**

Q.6 Study the following pie chart that shows the percentage-wise distribution of teachers who teach six different subjects, and answer the question given below.

Total number of teachers = 1600

If the number of teachers who teach Accountancy is increased by 25% and the number of teachers who teach Economics is decreased by 25%, then the total number of teachers who teach Accountancy and Economics together is:

Ans
- ✗ 1. 440
- ✗ 2. 445
- ✗ 3. 464
- ✔ 4. 352

Question ID : **65497815879**
Chosen Option : **4**

Q.7 Three numbers are in the ratio 3 : 5 : 7 and their LCM is 840. Their HCF is:

Ans
- ✗ 1. 6
- ✗ 2. 4
- ✗ 3. 5
- ✔ 4. 8

Question ID : **65497815874**
Chosen Option : **4**

Q.8 An article was sold for ₹1,190 after allowing a discount of 15%. If 12.5% discount is given, then for how much should it be sold?

Ans
- ✗ 1. ₹1,200
- ✗ 2. ₹1,220
- ✗ 3. ₹1,325
- ✔ 4. ₹1,225

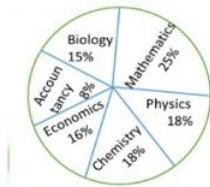Question ID : **65497815861**
Chosen Option : **4**

Q.9 A 144-m-long wire of radius 4 mm is melted to form a sphere. What is the surface area (in cm^2) of the sphere, assuming there is no wastage of material?

Ans
- ✗ 1. $400\,\pi$
- ✗ 2. $676\,\pi$
- ✔ 3. $576\,\pi$
- ✗ 4. $484\,\pi$

Question ID : **65497815067**
Chosen Option : **4**

Q.10 Study the following pie chart that shows the percentage-wise distribution of teachers who teach six different subjects, and answer the question given below.

Total number of teachers = 1600

The central angle of teachers who teach Biology and Mathematics together is:

Ans ✗ 1. 134°

✗ 2. 124°

✔ 3. 144°

✗ 4. 140°

Question ID : **65497815877**

Chosen Option : **3**

Q.11 The value of $\dfrac{\frac{1}{3}+\left[4\frac{3}{4}-(3\frac{1}{6}-2\frac{1}{3})\right]}{\left(\frac{1}{5}\text{ of }\frac{1}{5}\div\frac{1}{5}\right)\div\left(\frac{1}{5}\div\frac{1}{5}\times\frac{1}{5}\right)}$ lies between:

Ans ✔ 1. 4.2 and 4.3

✗ 2. 4.3 and 4.4

✗ 3. 4.6 and 4.8

✗ 4. 4.0 and 4.1

Question ID : **65497817189**

Chosen Option : **1**

Q.12 The ratio of boys and girls in a school is 17 : 12, and the total number of students in the school is 1305. The number of boys in the school is:

Ans ✗ 1. 650

✔ 2. 765

✗ 3. 750

✗ 4. 700

Question ID : **65497815865**

Chosen Option : **2**

Q.13 The mean of 50 items was 24. Later on, it was discovered that two items were misread as 83 and 17 instead of 38 and 77. The correct mean is:

Ans ✔ 1. 24.3

✗ 2. 23.4

✗ 3. 24

✗ 4. 22.5

Question ID : **65497815870**

Chosen Option : **1**

Q.14 If the area of the base of a cone is 154 cm^2 and the area of the curved surface is 550 cm^2, then its volume is:

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

Ans ✔ 1. $1232\ cm^3$

✘ 2. $1132\ cm^3$

✘ 3. $1234\ cm^3$

✘ 4. $1130\ cm^3$

Question ID : **65497815873**

Chosen Option : **1**

Q.15 Varun gave 60% of the money he had to his wife. He also gave 20% of the remaining amount to each of his three children. Three-fifth of the amount now left was spent on miscellaneous items, and the remaining amount of ₹9,600 was deposited in the bank. How much money did Varun have initially?

Ans ✘ 1. ₹2,00,000

✘ 2. ₹1,80,000

✔ 3. ₹1,50,000

✘ 4. ₹1,60,000

Question ID : **65497815862**

Chosen Option : **3**

Q.16 If a person walked at 12 km/h instead of $8\frac{1}{2}$ km/h, he would have walked 14 km more. The actual distance travelled by him was:

Ans ✘ 1. 32 km

✘ 2. 30 km

✘ 3. 36 km

✔ 4. 34 km

Question ID : **65497815857**

Chosen Option : **4**

Q.17 The average age of a group of students in a class is 15.5 years. 15 new students with an average age of 14.5 years join the group, due to which the average age of students in the class becomes 15 years. The number of students initially present in the class is:

Ans ✘ 1. 18

✘ 2. 12

✘ 3. 14

✔ 4. 15

Question ID : **65497815860**

Chosen Option : **4**

Q.18 'A' alone can complete a work for ₹6,500 in 15 days. With the help of 'B', the work is completed in 12 days. The share of 'B' is:

Ans

✗ 1. ₹1,500

✗ 2. ₹1,200

✗ 3. ₹2,300

✔ 4. ₹1,300

Question ID : **65497815855**
Chosen Option : **4**

Q.19 Each of the measure of the radius of a cylinder and that of a sphere is 10.5 cm. Also, the volumes of these two solids are equal. The curved surface area of the cylinder is:

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

Ans

✗ 1. $934\ cm^2$

✗ 2. $824\ cm^2$

✗ 3. $920\ cm^2$

✔ 4. $924\ cm^2$

Question ID : **65497815872**
Chosen Option : **4**

Q.20 A man wanted to sell his cycle at 20% profit, but actually sold it at 20% loss for ₹960. At what price did he want to sell it to earn the profit of 20%?

Ans

✗ 1. ₹1,420

✔ 2. ₹1,440

✗ 3. ₹1,450

✗ 4. ₹1,340

Question ID : **65497815863**
Chosen Option : **2**

Q.21 Naveen took two loans, altogether for ₹9,400, from Suman and Arya. Suman claimed $12\frac{1}{2}\%$ simple interest per annum, while Arya claimed $10\frac{1}{2}\%$ per annum. The total interest paid by Naveen in one year was ₹1,063. The sum borrowed from Arya is:

Ans

✗ 1. ₹6,600

✗ 2. ₹5,400

✗ 3. ₹5,200

✔ 4. ₹5,600

Question ID : **65497815869**
Chosen Option : **4**

Q.22 The average of five numbers is 78. If the average of the first two numbers is 54 and the average of the last two numbers is 63, then the third number is:

Ans

✔ 1. 156

✘ 2. 126

✘ 3. 136

✘ 4. 144

Question ID : **65497815859**

Chosen Option : **1**

Q.23 An article was sold at 5.75% profit. Had it been sold at 1.2% loss, it would have given him ₹1,390 less. The cost price of the article is:

Ans

✘ 1. ₹25,000

✘ 2. ₹22,500

✔ 3. ₹20,000

✘ 4. ₹22,000

Question ID : **65497815864**

Chosen Option : **3**

Q.24 The daily wages of men and women are in the ratio 4 : 3. 15 men and 25 women together earn ₹5,400. Find the total wages of one man and 5 women.

Ans

✘ 1. ₹740

✘ 2. ₹680

✘ 3. ₹860

✔ 4. ₹760

Question ID : **65497815866**

Chosen Option : **4**

Q.25 The compound interest obtained on ₹6,250 for two years at the rate of interest 8% per annum, compounded annually, will be:

Ans

✔ 1. ₹1,040

✘ 2. ₹1,500

✘ 3. ₹1,450

✘ 4. ₹1,020

Question ID : **65497815868**

Chosen Option : **1**