Section : **Quantitative Aptitude**

Q.1 The average of ten numbers is 18.2. The average of the first four numbers is 16.6 and that of the last seven numbers is 20.8. If the 4^{th} number is excluded, then the average of the remaining numbers is (correct to one decimal place):

Ans

✔ 1. 16.9

✗ 2. 15.8

✗ 3. 17.2

✗ 4. 16.7

Question ID : **65497814343**

Chosen Option : **1**

Q.2 The total surface area of a solid right circular cylinder of height 13 cm, is 880 cm^2. Its volume (in cm^3) is 11k. The value of k is: (Take $\pi = \frac{22}{7}$)

Ans

✗ 1. 208

✓ 2. 182

✗ 3. 104

✗ 4. 91

Question ID : **65497814260**
Chosen Option : **2**

Q.3 The average of the 2-digit numbers 37, 45, 6x and x6 is 48. What is the average of (4x + 3) and (x + 7)?

Ans

✗ 1. 12.5

✓ 2. 15

✗ 3. 17.5

✗ 4. 20

Question ID : **65497814344**
Chosen Option : **2**

Q.4 The ratio of the speeds of A and B is 2 : 5. To cover a certain distance, if A takes 15 minutes more than B, then how much time (in minutes) will B take to cover the same distance?

Ans

✗ 1. 12

✗ 2. 8

✓ 3. 10

✗ 4. 9

Question ID : **65497814358**
Chosen Option : **3**

Q.5 A person saves 28% of his income. If his income increases by 20% and the expenditure reduces by 5%, then his savings increase by x%. The value of x is closest to:

Ans

✗ 1. 72.5

✓ 2. 84.3

✗ 3. 45.8

✗ 4. 54.4

Question ID : **65497814347**
Chosen Option : **2**

Q.6 When x is subtracted from each of 24, 30, 36 and 46, the numbers so obtained in this order, are in proportion. What is the mean proportional between (2x + 3) and (3x + 2)?

Ans

✗ 1. 10

✗ 2. 12

✓ 3. $10\sqrt{3}$

✗ 4. $12\sqrt{3}$

Question ID : **65497814350**
Chosen Option : **3**

Q.7 A sold an article to B at a loss of 20%, and B sold it to C at a profit of 32%. C sold it to D at a loss of 20%. If A's loss is ₹35 less than that of C, then B bought the article for:

Ans

✗ 1. ₹2,800

✓ 2. ₹2,500

✗ 3. ₹2,940

✗ 4. ₹2,750

Question ID : **65497814349**
Chosen Option : **2**

Q.8 There is a rectangular plot, 120 m long and 98 m wide, with semi-circular flower beds along the breadth on both sides of the plot. The cost of putting a fence all around the plot at ₹16.50 per m is: (Take $\pi = \frac{22}{7}$)

Ans

✗ 1. ₹8,910

✓ 2. ₹9,042

✗ 3. ₹9,009

✗ 4. ₹8,943

Question ID : **65497814359**
Chosen Option : **2**

Q.9 By selling an article for ₹820, Abhi loses 18%. To gain 25.5%, he should sell it for:

Ans

✗ 1. ₹1,260

✗ 2. ₹1,275

✓ 3. ₹1,255

✗ 4. ₹1,250

Question ID : **65497814348**
Chosen Option : **3**

Q.10 What least number must be subtracted from 2963 so that the resulting number when divided by 9, 10 and 15, the remainder in each case is 5?

Ans

✗ 1. 41

✓ 2. 78

✗ 3. 82

✗ 4. 39

Question ID : **65497814340**
Chosen Option : **2**

Q.11 The value of $\frac{3}{8}+\frac{1}{7}\times 1\frac{3}{4}+\left(\frac{2}{3}\div\frac{3}{10}\text{ of }\frac{4}{9}\right)-\left(3\frac{1}{5}\div 4\frac{1}{2}\text{ of }5\frac{1}{3}\right)\times\frac{15}{8}$ is:

Ans

✗ 1. $5\frac{1}{2}$

✗ 2. $10\frac{1}{2}$

✗ 3. $10\frac{1}{4}$

✓ 4. $5\frac{3}{8}$

Question ID : **65497814342**
Chosen Option : **4**

Q.12 The compound interest on a certain sum for 2 years at 15% per annum is ₹3,641, when the interest is compounded 8 monthly. The sum is:

Ans

✗ 1. ₹9,000

✗ 2. ₹9,600

✓ 3. ₹11,000

✗ 4. ₹10,000

Question ID : **65497814354**
Chosen Option : **3**

Q.13 What is the mean of the median and the mode of the data:

19, 20, 14, 15, 19, 16, 17, 15, 14, 13, 18, 19, 17, 13?

Ans

✗ 1. 17

✗ 2. 18

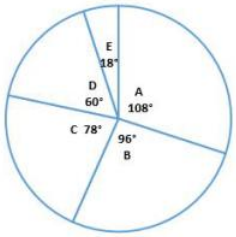
✓ 3. 17.75

✗ 4. 17.25

Question ID : **65497814346**
Chosen Option : **--**

Q.14 Study the given pie chart and answer the question that follows.

Distribution (degree wise)of employees working in offices A, B, C, D and E of a company in 2019



Total Number of Employees = 300

The total number of employees in offices C and E is what percentage less than the number of employees in office A?

Ans

✔ 1. $11\frac{1}{9}$

✘ 2. $12\frac{1}{2}$

✘ 3. $16\frac{2}{3}$

✘ 4. $15\frac{1}{4}$

Question ID : **65497814363**
Chosen Option : **1**

Q.15 A can do a certain work in 30 days. B is 25% more efficient than A, and C is 20% more efficient than B. A and B work together for 10 days. C alone completes the remaining work in x days. The value of x is:

Ans

✘ 1. 4

✘ 2. 8

✘ 3. 6

✔ 4. 5

Question ID : **65497814356**
Chosen Option : **4**

Q.16 The value of $6 \times 2 \div 3$ of $12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2$ of 3 is:

Ans

✘ 1. $\frac{17}{6}$

✔ 2. $\frac{23}{6}$

✘ 3. $\frac{19}{6}$

✘ 4. $\frac{13}{6}$

Question ID : **65497816481**
Chosen Option : **2**

Q.17 The simple interest on a sum of ₹4,800 for $4\frac{1}{2}$ years at a certain rate per annum is ₹1,684.80. What will be the amount of the same sum at the same rate for $6\frac{2}{3}$ years at simple interest?

Ans

✗ 1. ₹7,096

✗ 2. ₹7,084

✓ 3. ₹7,296

✗ 4. ₹7,298

Question ID : **65497814353**
Chosen Option : **3**

Q.18 A can do $33\frac{1}{3}$% of a work in 10 days, and B can do 20% of the same work in 9 days. They worked together for 8 days. C alone completed 30% of the remaining work in 10 days. A and C together can do the same work in:

Ans

✗ 1. 18 days

✗ 2. 12 days

✗ 3. 15 days

✓ 4. 20 days

Question ID : **65497814355**
Chosen Option : **4**

Q.19 Suman divided a certain sum between her three daughters in the ratio 2 : 3 : 4. Had she divided the sum in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$, the daughter who got the least share earlier, would have got ₹3,500 more. The sum was:

Ans

✗ 1. ₹14,000

✗ 2. ₹14,500

✗ 3. ₹13,750

✓ 4. ₹14,625

Question ID : **65497814351**
Chosen Option : **4**

Q.20 The marked price of an article is ₹2,560. During a sale, two successive discounts of 20% and x% are offered on it. If the selling price of the article is ₹1,679.36, then the value of x is:

Ans

✗ 1. 16.5

✗ 2. 12.5

✗ 3. 15

✓ 4. 18

Question ID : **65497814345**
Chosen Option : **4**

Q.21 A person can row 5 m/sec in still water. The speed of the stream is 6 km/h. The time (in hours) taken by him to row a distance of 76.8 km downstream is:

Ans

✗ 1. 3.5

✗ 2. 2.8

✓ 3. 3.2

✗ 4. 2.4

Question ID : **65497814357**
Chosen Option : **3**

Q.22 The value of $48 \div [5 + \{19 - (16 - 16 \div 4 \times 3 \text{ of } 2)\}]$ is:

Ans

✗ 1. $\frac{3}{4}$

✓ 2. $\frac{3}{2}$

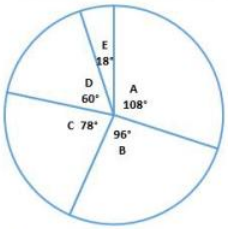
✗ 3. $\frac{2}{3}$

✗ 4. $\frac{1}{2}$

Question ID : **65497814341**
Chosen Option : **2**

Q.23 Study the given pie chart and answer the question that follows.

Distribution (degree wise) of employees working in offices A, B, C, D and E of a company in 2019



Total Number of Employees = 300

In which office is the number of employees approximately 18% more than the average number of employees working in offices A, C, D and E?

Ans

✗ 1. D

✗ 2. A

✗ 3. B

✓ 4. C

Question ID : **65497814362**
Chosen Option : **4**

Q.24 The monthly incomes of A and B are in the ratio 2 : 3, and the ratio of their savings is 3 : 4. If the income of A equals the savings of B, then the ratio of the expenditures of A and B is:

Ans

✔ 1. 1 : 2

✘ 2. 4 : 5

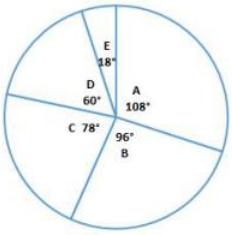
✘ 3. 2 : 3

✘ 4. 3 : 4

Question ID : **65497814352**
Chosen Option : **1**

Q.25 Study the given pie chart and answer the question that follows.

Distribution (degree wise)of employees working in offices A, B, C, D and E of a company in 2019



Total Number of Employees = 300

In office A, 40% employees are females and 60% employees in office C are males. What is the ratio of the number of male employees in A to that of female employees in C?

Ans

✘ 1. 15 : 8

✘ 2. 9 : 4

✔ 3. 27 : 13

✘ 4. 18 : 13

Question ID : **65497814364**
Chosen Option : **3**