

Question ID : 65497815124
Chosen Option : 2

Section : Numerical Aptitude

Q.1 A solid metallic cylinder with a base radius of 3 cm and a height 120 of cm is melted and recast into a sphere of radius r cm. What is the value of r if there is a 10% metal loss in the conversion?

- Ans** 1. 9
 2. 8
 3. 13.5
 4. 12

Question ID : 65497814663
Chosen Option : 1

Q.2

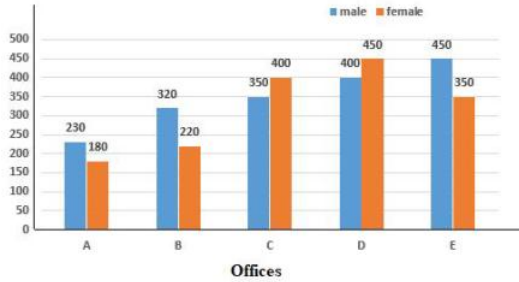
The value of $\frac{3\frac{1}{4} - \frac{4}{5} \text{ of } \frac{5}{6}}{4\frac{1}{3} \div \frac{1}{5} - \left(\frac{3}{10} + 21\frac{1}{5}\right)} - \left(2\frac{1}{3} \text{ of } 1\frac{1}{2}\right)$ is:

- Ans** 1. 9
 2. 13
 3. 12
 4. 11

Question ID : 65497816785
Chosen Option : 3

Q.3 Study the given graph and answer the question that follows.

Number of Male and Female employees of a Company working in Five Offices



In which office of the company is the number of male employees 25% more than the average number of female employees in all five offices?

- Ans
- ✓ 1. D
 - ✗ 2. B
 - ✗ 3. E
 - ✗ 4. C

Question ID : 65497815069
Chosen Option : 1

Q.4 Pipes A, B and C can fill a tank in 30 hours, 36 hours and 28 hours, respectively. All the three pipes were opened simultaneously. If A and C were closed 5 hours and 8 hours, respectively, before the tank was filled completely, then in how many hours was the tank filled?

- Ans
- ✗ 1. 12
 - ✗ 2. 14
 - ✗ 3. 16
 - ✓ 4. 15

Question ID : 65497815063
Chosen Option : 4

Q.5 If the mean of the distribution

| | | | | | |
|-----------|------|-------|-------|-------|-------|
| Class | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 |
| Frequency | 6 | 12 | 15 | x | 5 |

is 24.6, then the value of x is:

- Ans
- ✗ 1. 10
 - ✗ 2. 9
 - ✓ 3. 12
 - ✗ 4. 13

Question ID : 65497815053
Chosen Option : 4

Q.6 A and B can do a certain work in 12 and 18 days, respectively. They work together for 5 days. The remaining work was completed by C alone in $27\frac{1}{2}$ days. What part of the same work can be completed by A, B and C together in 6 days?

- Ans**
- 1. $\frac{5}{6}$
 - 2. $\frac{9}{10}$
 - 3. $\frac{14}{15}$
 - 4. $\frac{29}{30}$

Question ID : 65497815062
Chosen Option : 2

Q.7 A sum of ₹4,000 is lent at 10% p.a., interest compounded annually. What is the difference between the compound interest for the 2nd year and the 3rd year?

- Ans**
- 1. ₹45.00
 - 2. ₹46.50
 - 3. ₹45.40
 - 4. ₹44.00

Question ID : 65497815061
Chosen Option : 4

Q.8 The speed of a bus without stoppages is 40 km/h and with stoppages is 32 km/h. How many minutes per hour does the bus stop?

- Ans**
- 1. 12
 - 2. 18
 - 3. 15
 - 4. 16

Question ID : 65497815065
Chosen Option : 1

Q.9 An article is sold at a profit of 25%. If both the cost price and the selling price of the article are increased by ₹200, then the profit percentage is 20%. What is the original cost price of the article?

- Ans**
- 1. ₹800
 - 2. ₹900
 - 3. ₹750
 - 4. ₹840

Question ID : 65497815056
Chosen Option : 1

Q.10 A dealer sells an article by allowing a 20% discount on its marked price and still gains 12%. If the cost price of the article is ₹750, then its marked price (in ₹) is:

- Ans**
- ✓ 1. 1,050
 - ✗ 2. 1,025
 - ✗ 3. 1,150
 - ✗ 4. 1,125

Question ID : 65497815052
Chosen Option : 1

Q.11 The price of an article increases by 20% every year. If the difference between the price of the article at the end of the third year and at the end of the fourth year is ₹324, what is the price of the article at the end of the second year?

- Ans**
- ✓ 1. ₹1,350
 - ✗ 2. ₹1,180
 - ✗ 3. ₹1,260
 - ✗ 4. ₹1,250

Question ID : 65497815054
Chosen Option : 1

Q.12 कोई व्यक्ति $8\frac{1}{3}$ m/sec की चाल से चलता है, तो वह अपने गंतव्य स्थान पर समय पर पहुंचता है। वह यात्रा का $\frac{2}{3}$ भाग, समय के $\frac{5}{8}$ भाग में तय करता है। समय पर गंतव्य स्थान तक पहुंचने के लिए, उसे शेष दूरी को कितनी चाल (km/h में) से तय करना चाहिए?

- Ans**
- ✓ 1. $26\frac{2}{3}$
 - ✗ 2. 28
 - ✗ 3. $28\frac{1}{3}$
 - ✗ 4. 24

Question ID : 65497815064
Chosen Option : 1

Q.13 The value of $120 \div [13 + \{47 - (36 - 36 \div 9 \text{ of } 2 \times 3)\}]$ is:

- Ans**
- ✗ 1. 3
 - ✓ 2. 4
 - ✗ 3. 15
 - ✗ 4. 12

Question ID : 65497815048
Chosen Option : 2

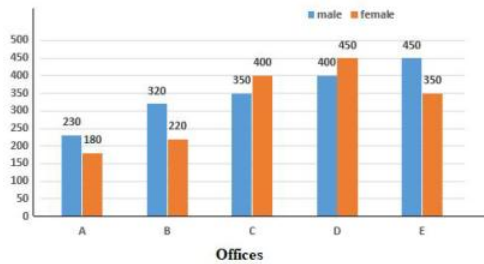
Q.14 A sum of ₹12,384 is divided between A, B, C and D such that the ratio of the shares of A and B is 3 : 4, that of B and C is 5 : 6, and that of C and D is 8 : 9. What is the share of C?

- Ans**
- 1. ₹2,880
 - 2. ₹3,888
 - 3. ₹3,456
 - 4. ₹2,160

Question ID : 65497815058
Chosen Option : 3

Q.15 Study the given graph and answer the question that follows.

Number of Male and Female employees of a Company working in Five Offices



If 45% of the female employees in office C are transferred to office B, then the number of male employees in office E is what percentage more than the female employees in office B?

- Ans**
- 1. $11\frac{1}{9}\%$
 - 2. 12.5%
 - 3. 12%
 - 4. 10%

Question ID : 65497815071
Chosen Option : 2

Q.16 If $(a + b) : (b + c) : (c + a) = 15 : 14 : 11$, and $a + b + c = 40$, then what is the value of $(3a + b - 4c)$?

- Ans**
- 1. 18
 - 2. 17
 - 3. 15
 - 4. 14

Question ID : 65497815057
Chosen Option : 4

Q.17 The difference between the areas of two concentric circles is 88 cm^2 . If the radius of the inner circle is 6 cm, then the area (in cm^2) of the larger circle is closest to: (Take $\pi = \frac{22}{7}$)

- Ans
- 1. 196
 - 2. 201
 - 3. 197
 - 4. 198

Question ID : 65497815066
Chosen Option : 2

Q.18 When an article is sold for ₹531, there is a gain of 18%. If it is sold for ₹486, then there will be a:

- Ans
- 1. gain of 8%
 - 2. gain of 10%
 - 3. loss of 10%
 - 4. loss of 8%

Question ID : 65497815055
Chosen Option : 1

Q.19 A certain sum amounts to ₹4,600 after 5 years and to ₹6,000 after 8 years at the same rate of simple interest per annum. What will be the simple interest on a sum of ₹8,500 for $6\frac{1}{2}$ years at the same rate?

- Ans
- 1. ₹10,515
 - 2. ₹10,215
 - 3. ₹11,375
 - 4. ₹11,460

Question ID : 65497815060
Chosen Option : 3

Q.20 The value of $\frac{2}{3} \div \left(\frac{4}{5} - \frac{1}{2}\right) \times \frac{18}{25} - \left(\frac{4}{5} \div \frac{5}{6} \text{ of } 2\frac{2}{3}\right) + 3\frac{1}{5} \div \frac{8}{5} \times \frac{2}{5}$ is:

- Ans
- 1. $3\frac{1}{5}$
 - 2. $4\frac{2}{5}$
 - 3. $3\frac{2}{25}$
 - 4. $2\frac{1}{25}$

Question ID : 65497815049
Chosen Option : 4

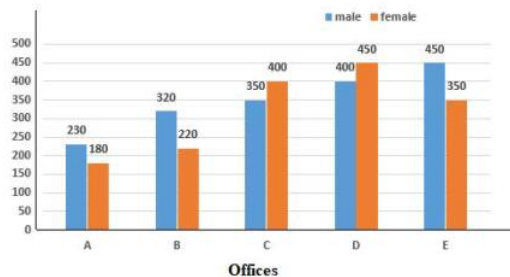
Q.21 Let x be the least number between 56,000 and 60,000 which when divided by 40, 45, 50 and 55 leaves a remainder of 23 in each case. What is the sum of the digits of x ?

- Ans**
- ✓ 1. 23
 - ✗ 2. 21
 - ✗ 3. 26
 - ✗ 4. 19

Question ID : 65497815047
Chosen Option : 1

Q.22 Study the given graph and answer the question that follows.

Number of Male and Female employees of a Company working in Five Offices



The total number of female employees of the company in offices B, D and E is what percentage less than the total number of male employees in offices A, B, C and E (correct to one decimal place)?

- Ans**
- ✓ 1. 24.4%
 - ✗ 2. 32.4%
 - ✗ 3. 36.5%
 - ✗ 4. 35.2%

Question ID : 65497815070
Chosen Option : 1

Q.23 The average weight of all the students in a class is 55 kg. The ratio of the average weight of boys to that of girls is 5 : 4. If 40% of the students are boys and the rest are girls, then what is the average weight (in kg) of boys?

- Ans**
- ✓ 1. 62.5
 - ✗ 2. 65
 - ✗ 3. 66
 - ✗ 4. 60.8

Question ID : 65497815050
Chosen Option : 1

Q.24 The average of the 3-digit numbers 524, $4663x4$ and $x52$ is 529. What is the average of $(10x + 7)$ and $(14x - 9)$?

Ans 1. 83

2. 71

3. 59

4. 68

Question ID : 65497815051

Chosen Option : 1

Q.25 The ratio of copper and zinc in alloy A is 5 : 7 and that in alloy B is 4 : 5. A and B are taken in the ratio of 1 : 2 and mixed to form a new alloy C. What part of C is copper?

Ans 1. $\frac{47}{108}$

2. $\frac{5}{12}$

3. $\frac{4}{9}$

4. $\frac{61}{108}$

Question ID : 65497815059

Chosen Option : 1