

Section : Quantitative Aptitude

Q.1 What is the value of x, if 25% of 480 + 30% of 500 + x% of 90 = 35% of 900?

- Ans
- 1. 45
 - 2. 50
 - 3. 55
 - 4. 40

Question ID : 6549789320
Status : Answered
Chosen Option : 2

Q.2 If the number A9257B684 is divisible by 11, then what is the least value of A – B?

- Ans
- 1. 14
 - 2. 0
 - 3. -8
 - 4. 3

Question ID : 6549788915
Status : Answered
Chosen Option : 4

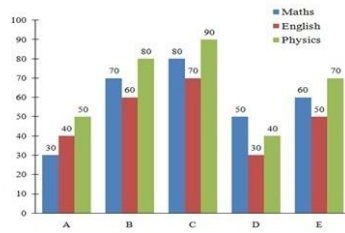
Q.3 If $3\cot^2 x - 7\operatorname{cosec}^2 x + 7 = 0$, then the value of x ($0 \leq x \leq 90^\circ$) is:

- Ans
- 1. 30°
 - 2. 0°
 - 3. 90°
 - 4. 60°

Question ID : 6549789323
Status : Answered
Chosen Option : 4

Q.4 Study the following graph and answer the question that follows.

Marks scored by five students A, B, C, D and E in three subjects (Maths, English and Physics). Total marks for each subject are 100.



What is the percentage marks obtained by E in all three subjects together? (Assuming maximum marks for each subject are 100.)

- Ans**
- 1. 40
 - 2. 50
 - 3. 70
 - 4. 60

Question ID : 6549789324
 Status : Answered
 Chosen Option : 4

Q.5 Find the area (in cm^2) and the diameter (in cm), respectively, of a circle whose circumference is 40π cm?

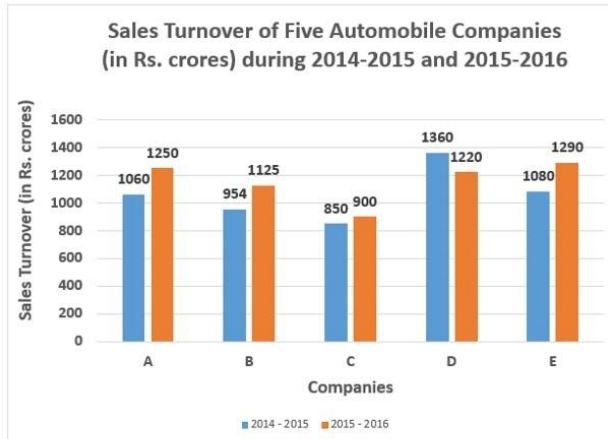
- Ans**
- 1. 400π and 40
 - 2. 40 and 400π
 - 3. 400 and 40
 - 4. 40 and 400

Question ID : 6549788908
 Status : Answered
 Chosen Option : 1

Q.6 Study the given bar graph and answer the question that follows.

The given bar graph represents the Sales Turnover (in ₹ crore) of five automobile companies A, B, C, D and E during 2014-2015 and 2015-2016. The X-axis represents the Companies, and the Y-axis shows the Sales Turnover (in ₹ crore).

(The data shown here is only for mathematical exercise. They do not represent the actual figures of the company.)



If there was an increase of 25% in the average of the sales turnover of all the companies together in 2014-2015 from that in 2013-2014, then what was the average (in ₹ crore, up to two decimal places) of the sales turnover of all the companies together in 2013-2014?

- Ans
- 1. 848.64
 - 2. 588.96
 - 3. 806.21
 - 4. 985.67

Question ID : 6549788923
Status : Answered
Chosen Option : 1

Q.7 If the difference between two numbers is 5 and the difference between their cubes is 1850, then the difference between their squares is:

- Ans
- 1. $5\sqrt{484}$
 - 2. $5\sqrt{482}$
 - 3. $5\sqrt{485}$
 - 4. $5\sqrt{483}$

Question ID : 6549789318
Status : Answered
Chosen Option : 3

Q.8 If $(a + b + c) = 0$ and $(abc) = 12$, then what is the value of $(a^3 + b^3 + c^3)$?

- Ans
- 1. 6
 - 2. 12
 - 3. 72
 - 4. 36

Question ID : 6549788912
Status : Answered
Chosen Option : 4

Q.9 In General store, an item with an MRP of ₹35,600 is on the discount counter with a special price of ₹34,888. What is the percentage of discount given for that item?

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

Question ID : 6549789307
Status : Answered
Chosen Option : 4

Q.10 The compound interest (in ₹, to the nearest integer) on ₹8,950 for 2 years at the rate of 9% per annum, compounded annually, is:

- Ans**
- 1. 1,523
 - 2. 1,683
 - 3. 1,685
 - 4. 1,468

Question ID : 6549788907
Status : Answered
Chosen Option : 2

Q.11 AB and AC are tangents to a circle with centre O from an external point A. The tangents AB and AC touch the circle at B and C, respectively, such that $\angle BAC = 118^\circ$. Find the measure of $\angle OCB$.

- Ans**
- 1. 59°
 - 2. 62°
 - 3. 60°
 - 4. 54°

Question ID : 6549789313
Status : Answered
Chosen Option : 1

Q.12 Varun and Syan can do a work in 3 days, Syan and Anil can do it in 4 days, and Anil and Varun can do it in 6 days. How many days will Anil alone take to do the work?

- Ans**
- 1. 22
 - 2. 18
 - 3. 20
 - 4. 24

Question ID : 6549789303
Status : Answered
Chosen Option : 4

Q.13 What is the value of $\sin^2 60 + \tan^2 45 + \sec^2 45 - \operatorname{cosec}^2 30$?

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

Question ID : 6549788918
Status : Answered
Chosen Option : 3

Q.14 Two trains start at the same time from two stations and proceed towards each other at speeds of 90 km/h and 70 km/h, respectively. When they meet, it is found that one train has travelled 140 km more than the other. What is the distance (in km) between the two stations?

- Ans
- 1. 1100
 - 2. 1120
 - 3. 980
 - 4. 1200

Question ID : 6549788900
Status : Answered
Chosen Option : 2

Q.15 What is the area (in m^2 , up to 1 place of decimal) of an equilateral triangular field of side 8.5 m?

- Ans
- 1. $\frac{18.1}{\sqrt{3}}$
 - 2. $18.1\sqrt{3}$
 - 3. $\frac{72.25}{\sqrt{3}}$
 - 4. $72.25\sqrt{3}$

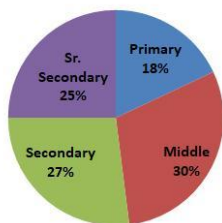
Question ID : 6549788910
Status : Answered
Chosen Option : 2

Q.16 A's salary increases in the ratio 8 : 11. If his new salary is ₹33,000, then what was his original salary (in ₹)?

- Ans
- 1. 20,000
 - 2. 18,000
 - 3. 22,000
 - 4. 24,000

Question ID : 6549788906
Status : Answered
Chosen Option : 4

Q.17 Students of Primary, Middle, Secondary and Sr. Secondary classes collected donation for a Relief Fund as shown in the pie chart. If the donation collected from Middle classes was ₹6,750, then what would be the total amount of money collected by Secondary and Sr. Secondary classes?



- Ans
- 1. ₹9,675
 - 2. ₹11,700
 - 3. ₹9,450
 - 4. ₹12,825

Question ID : 6549789528
Status : Answered
Chosen Option : 2

Q.18 The sum of two numbers is 59 and their product is 1150. Find the sum of their squares.

- Ans
- 1. 1183
 - 2. 1178
 - 3. 1176
 - 4. 1181

Question ID : 6549789317
Status : Answered
Chosen Option : 4

Q.19 A shopkeeper sells two refrigerator sets at the same price. He gains 40% on one refrigerator and loses 40% on the other. What is his net loss percentage in the whole transaction?

- Ans
- 1. 18%
 - 2. 14%
 - 3. 12%
 - 4. 16%

Question ID : 6549789309
Status : Answered
Chosen Option : 4

Q.20 If $2\tan x + 3\cot x = 5$, then the value of $4\tan^2 x + 9\cot^2 x$ is:

- Ans
- 1. 11
 - 2. 15
 - 3. 17
 - 4. 13

Question ID : 6549789321
Status : Answered
Chosen Option : 4

Q.21 The length of a rectangle is five times of its breadth. If the area of the rectangle is 3125 cm^2 , then what is the length of the rectangle?

- Ans
- 1. 125 cm
 - 2. 120 cm
 - 3. 135 cm
 - 4. 130 cm

Question ID : 6549789305
Status : Answered
Chosen Option : 1

Q.22 The centroid of an equilateral triangle ΔABC is O. If $AB = 27 \text{ cm}$, then the length of AO is:

- Ans
- 1. $9\sqrt{3} \text{ cm}$
 - 2. $6\sqrt{3} \text{ cm}$
 - 3. $7\sqrt{3} \text{ cm}$
 - 4. $8\sqrt{3} \text{ cm}$

Question ID : 6549789315
Status : Answered
Chosen Option : 1

Q.23 30 people went to a restaurant for a dinner party. 20 of them paid ₹880 each and each of the rest of them paid ₹110 more than the average of the total expenses. What was the total expense (in ₹) for the dinner?

- Ans
- 1. 27,840
 - 2. 29,360
 - 3. 28,050
 - 4. 24,580

Question ID : 6549788902
Status : Answered
Chosen Option : 1

Q.24 What is the value of $9\% \text{ of } 5500 + 2.4\% \text{ of } 1100 - 40\% \text{ of } 1600$?

- Ans
- 1. -118.6
 - 2. 181.6
 - 3. -181.6
 - 4. 118.6

Question ID : 6549788904
Status : Answered
Chosen Option : 1

Q.25 The given pie charts represent the distribution of candidates who enrolled for a bank clerical examination and the candidates (out of those enrolled) who passed the examination, from five different institutes P, Q, R, S and T. Study the pie charts and answer the question that follows.

(i) Total number of candidates who enrolled for the examination from five institutes = 5500

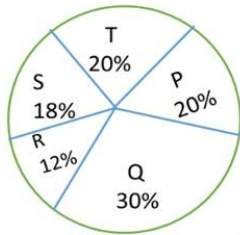


Fig.(i)

(ii) Total number of candidates who passed the examination from five institutes = 3300

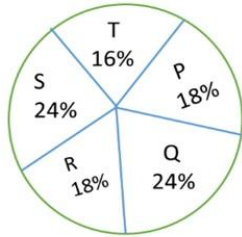


Fig.(ii)

The average number of candidates passed from institutes P and Q together is what percentage of the total number of candidates enrolled from institutes P and Q together?

- Ans
- 1. 30%
 - 2. 25.2%
 - 3. 25.8%
 - 4. 24.6%

Question ID : 6549787508
 Status : Answered
 Chosen Option : 2