

Section : **Quantitative Aptitude**

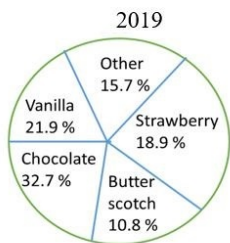
Q.1 $\triangle ABC \sim \triangle EDF$, Area ABC : Area $DEF = 49 : 4$. If AB, AC, BC are, respectively, 10 cm, 14 cm, 21 cm, then what is the length (in cm) of EF?

- Ans**
- 1. 4
 - 2. 4.5
 - 3. 3.5
 - 4. 6

Question ID : **6549788204**
 Status : **Answered**
 Chosen Option : **4**

Q.2 Study the given pie chart and answer the question that follows.

The pie chart represents the popularity of ice-cream flavours among families in the year 2019.



In 2019, if 20% of the 'Other' category was Anjeer flavour and 4082 people preferred Anjeer flavour, then how many people were surveyed?

- Ans**
- 1. 1,40,000
 - 2. 1,30,000
 - 3. 1,50,000
 - 4. 1,25,000

Question ID : **6549786396**
 Status : **Answered**
 Chosen Option : **2**

Q.3 AB is a diameter of a circle with centre O. If C is any point on the circle such that $\angle BAC = 42^\circ$, then find the measure of $\angle BOC$.

- Ans**
- 1. 42°
 - 2. 84°
 - 3. 63°
 - 4. 60°

Question ID : **6549788202**
 Status : **Answered**
 Chosen Option : **2**

Q.4 If the nine-digit number $23541y49x$ is divisible by 72, then $(3x + 5y) : (5x + 3y)$ is equal to:

- Ans**
- 1. 3 : 4
 - 2. 7 : 9
 - 3. 9 : 7
 - 4. 4 : 3

Question ID : 6549786592
Status : Answered
Chosen Option : 2

Q.5 If A lies between 45° and 540° , and $\sin A = 0.5$, what is the value of $A/3$ in degrees?

- Ans**
- 1. 170°
 - 2. 175°
 - 3. 160°
 - 4. 165°

Question ID : 6549788212
Status : Answered
Chosen Option : 1

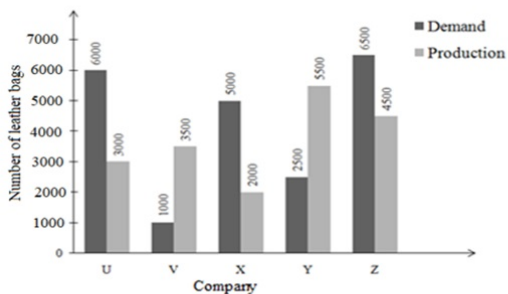
Q.6 The average weight of some persons in a group is 72 kg. When 5 persons with average weight 66.6 kg join and 13 persons with average weight 75 kg leave the group, the average weight of the persons in the group decreases by 1.65 kg. How many persons were there in the group initially?

- Ans**
- 1. 44
 - 2. 40
 - 3. 48
 - 4. 38

Question ID : 6549786579
Status : Answered
Chosen Option : 3

Q.7 Study the graph and answer the question that follows.

The given chart represents the demand and production of leather bags of five companies U, V, X, Y and Z.



If the production of leather bags by company Y is equal to 'm' times of the production of leather bags by company X, then the value of 'm' is:

- Ans**
- 1. 3.25
 - 2. 2.5
 - 3. 3
 - 4. 2.75

Question ID : **6549788213**
 Status : **Answered**
 Chosen Option : **4**

Q.8 24 persons can do a piece of work in 20 days. In how many days can 30 persons do the same work?

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

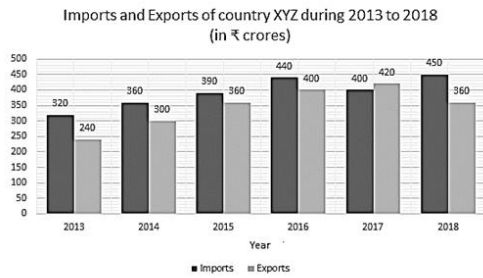
Question ID : **6549788192**
 Status : **Answered**
 Chosen Option : **2**

Q.9 If $49a^2 + 25b^2 = 30$ and $ab = 1, a, b > 0$, then the value of $(7a + 5b)$ is:

- Ans**
- 1. 14
 - 2. 10
 - 3. 8
 - 4. 12

Question ID : **6549788206**
 Status : **Answered**
 Chosen Option : **2**

Q.10 Study the given graph and answer the question that follows.



In the year 2019, if the imports increased by the same percentage as that in 2018 over its previous year, then what was the amount (in ₹ crores) of the imports in the year 2019?

- Ans**
- 1. 495
 - 2. 504
 - 3. 508.50
 - 4. 506.25

Question ID : 6549786600
Status : Answered
Chosen Option : 4

Q.11 AB is a diameter of the circle with centre O . The tangent at the point C on the circle meets AB produced at Q . If $\angle BAC = 34^\circ$, then the measure of $\angle CQA$ (in degrees) will be:

- Ans**
- 1. 24
 - 2. 36
 - 3. 22
 - 4. 26

Question ID : 6549786585
Status : Answered
Chosen Option : 3

Q.12 If θ is an acute angle and $\sin \theta = \cos \theta$, then the value of $2 \tan^2 \theta + \sin^2 \theta - 1$ is equal to:

- Ans**
- 1. 3
 - 2. 1
 - 3. $\frac{3}{2}$
 - 4. -7

Question ID : 6549788210
Status : Answered
Chosen Option : 3

Q.13 Rakesh sold a car for ₹5,00,000 at a 28% profit. At what price should he sell it to get a 32% profit?

- Ans**
- 1. ₹5,15,620
 - 2. ₹5,15,625
 - 3. ₹5,15,630
 - 4. ₹5,15,615

Question ID : **6549788198**
Status : **Answered**
Chosen Option : **2**

Q.14 The speed of a boat downstream is 150% more than its speed upstream. If the time taken by the boat for going 80 km downstream and 50 km upstream is 8.2 hours, then what is the speed (in km/h) of the boat downstream?

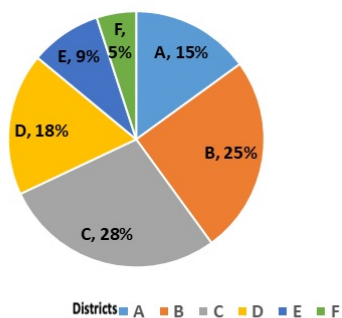
- Ans**
- 1. 16
 - 2. 30
 - 3. 25
 - 4. 24

Question ID : **6549786577**
Status : **Answered**
Chosen Option : **3**

Q.15 Study the given pie-chart and answer the question that follows.

The pie-chart represents the percentage distribution of candidates qualified in a bank examination from six different districts of a State in 2016. The total number of qualified candidates from the State is 68000.

The percentage distribution of candidates qualified for a bank examination from six districts A, B, C, D, E, and F of a State



Out of the total selected candidates from Districts B and D, rural candidates are 60% and 40%, respectively. The number of selected urban candidates from B is what per cent (up to one decimal place) more/less than the number of selected urban candidates from D?

- Ans**
- 1. More, 7.4
 - 2. More, 7.5
 - 3. Less, 7.4
 - 4. Less, 7.5

Question ID : 6549789022

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.16 The present ages of A and B are in the ratio 9 : 10. The ratio of their ages 8 years from now will be 11 : 12. What will be the sum of their ages (in years) after 3 years from now?

- Ans**
- 1. 78
 - 2. 76
 - 3. 82
 - 4. 84

Question ID : 6549786583

Status : Answered

Chosen Option : 3

Q.17 If $x + y + z = 5$, $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$, $xyz = 12$ and $x^3 + y^3 + z^3 = 151$, then the value of $(x^2 + y^2 + z^2)$ is:

- Ans**
- 1. 23
 - 2. 24
 - 3. 21
 - 4. 22

Question ID : 6549788207

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.18 If the ratio of the curved surface area and volume of a right circular cylinder is 5 : 7, then its radius is:

- Ans**
- 1. 2.6 unit
 - 2. 3.8 unit
 - 3. 3.2 unit
 - 4. 2.8 unit

Question ID : 6549788194

Status : Answered

Chosen Option : 4

Q.19 A man invested a total of ₹12,050 in two parts, one at 10% p.a. simple interest for 2 years and the other at the same rate at compound interest, interest being compounded annually, for the same time. The amounts he received from both the parts are equal. The sum (in ₹) invested at the compound interest is:

- Ans**
- 1. 5,850
 - 2. 6,000
 - 3. 5,780
 - 4. 5,800

Question ID : 6549786584

Status : Answered

Chosen Option : 2

Q.20 The value of $25 + 184 \div [150 - \{9 \times 9 + (83 - 4 \times 15)\}]$ is:

- Ans**
- 1. 26
 - 2. 29
 - 3. 28
 - 4. 27

Question ID : 6549788209

Status : Answered

Chosen Option : 2

Q.21 If $\cos\theta = \frac{2}{3}$, then $2\sec^2\theta + 2\tan^2\theta - 6$ equals :

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

Question ID : 6549786595
Status : Answered
Chosen Option : 1

Q.22 In a class, 60% of the students are girls and the rest are boys. 45% of the girls pass an examination and 40% of the boys failed. If the number of girls who failed is 66, the number of boys who passed the examination is:

- Ans 1. 36
 2. 48
 3. 54
 4. 60

Question ID : 6549786581
Status : Answered
Chosen Option : 2

Q.23 The list price of a motorcycle is 20% more than its cost price. It is sold at a discount of 30%. Find the dealer's loss percentage.

- Ans 1. 14%
 2. 16%
 3. 10%
 4. 12%

Question ID : 6549788196
Status : Answered
Chosen Option : 2

Q.24 $\triangle ABC \sim \triangle PQR$. The perimeters of $\triangle ABC$ and $\triangle PQR$ are 72 cm and 43.2 cm, respectively. What is the ratio of the area of $\triangle ABC$ to the area of $\triangle PQR$?

- Ans 1. 25 : 9
 2. 9 : 4
 3. 16 : 9
 4. 36 : 25

Question ID : 6549786587
Status : Answered
Chosen Option : 1

Q.25 If $x + y = 5$ and $\frac{1}{x} + \frac{1}{y} = \frac{20}{9}$, then the value of $(x^3 + y^3)$ will be:

- Ans
- 1. $\frac{635}{8}$
 - 2. $\frac{365}{4}$
 - 3. $\frac{205}{4}$
 - 4. $\frac{635}{4}$

Question ID : 6549786589
Status : Answered
Chosen Option : 2