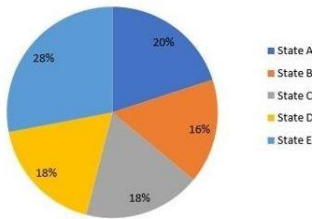


Q.1

Study the pie-chart and answer the question that follows.

The following pie chart gives the information about the percentage of brand X car owners in five different states out of 4 crore car owners in each of these states.

Owners of car of brand x



If the respective ratio of the total number of brand X car owners and the total number of brand P car owners in State E is 10 : 4, then the total number of brand P car owners in State E is what percentage less than the total number of brand X car owners in State A?

- Ans**
- 1. 63%
 - 2. 44%
 - 3. 65%
 - 4. 59%

Question ID : 26433076245
 Status : Not Answered
 Chosen Option : --

Q.2 Find the 4th proportional to 9, 7 and 153.

- Ans**
- 1. 102
 - 2. 149
 - 3. 122
 - 4. 119

Question ID : 264330106921
 Status : Not Answered
 Chosen Option : --

Q.3 The radius and the height of a right circular cylinder are 14 cm and 21 cm, respectively. How much water (in cm³) will it hold?
 (Take $\pi = \frac{22}{7}$.)

- Ans**
- 1. 13174
 - 2. 12936
 - 3. 13026
 - 4. 12984

Question ID : 26433075998
 Status : Not Answered
 Chosen Option : --

Q.4 An order of manufacturing nuts can be completed by 3 males or 4 females in 46 days. How many days will 7 males and 6 females together take to manufacture the same number of nuts?

- Ans
- 1. 13
 - 2. 12
 - 3. 15
 - 4. 14

Question ID : 26433081646
Status : Not Answered
Chosen Option : --

Q.5 If $\frac{y}{x} = \frac{b+7}{b-7}$, then the value of $\frac{y^2+x^2}{y^2-x^2}$ is:

- Ans
- 1. $\frac{b^2+49}{7b}$
 - 2. $\frac{b^2-49}{14b}$
 - 3. $\frac{b^2+49}{28b}$
 - 4. $\frac{b^2+49}{14b}$

Question ID : 264330106882
Status : Not Answered
Chosen Option : --

Q.6 There are three papers in an examination. Marks obtained by four students have been tabulated below:
Who has scored the least marks and in which paper?

Student	P1	P2	P3
Mohit	79	78	77
Shivam	73	87	80
Vishal	82	74	83
Viraj	77	89	86

- Ans
- 1. Shivam, P1
 - 2. Vishal, P2
 - 3. Viraj, P1
 - 4. Mohit, P3

Question ID : 26433076018
Status : Answered
Chosen Option : 1



Q.7 Suppose ΔPQR and ΔABC are congruent triangles under RHS, with $\angle PQR = \angle ABC = 90^\circ$. If $AB = 15$ cm and $BC = 8$ cm, find PR .

- Ans
- 1. 15 cm
 - 2. 19 cm
 - 3. 17 cm
 - 4. 8 cm

Question ID : 264330106941
Status : Not Answered
Chosen Option : --

Q.8 The least number, which when divided by 8, 10 and 12 leaves the remainder 2, 4 and 6, respectively, is:

- Ans
- 1. 57
 - 2. 120
 - 3. 114
 - 4. 60

Question ID : 26433081004
Status : Answered
Chosen Option : 3

Q.9 In the month of April 2022, the temperature in the second week of a town was recorded in degree centigrade as 42, 43, 41, 42, 44, 40 and 42. Calculate the average temperature of the week (in degree centigrade).

- Ans
- 1. 43°C
 - 2. 41°C
 - 3. 40°C
 - 4. 42°C

Question ID : 26433091524
Status : Answered
Chosen Option : 4

Q.10 Find the LCM of 32, 93 and 16.

- Ans
- 1. 2769
 - 2. 1488
 - 3. 2976
 - 4. 2796

Question ID : 26433092018
Status : Answered
Chosen Option : 3



Q.11 The radius and the height of a cone are 4.9 cm and 12 cm, respectively. The cone is cut from the middle perpendicularly into two equal parts.

What is the volume (in cm^3) of one such part? (Take $\pi = \frac{22}{7}$.)

- Ans**
- 1. 146.44
 - 2. 144.18
 - 3. 148.76
 - 4. 150.92

Question ID : 26433075995

Status : Not Answered

Chosen Option : --

Q.12 Out of his total income, Ravi spends 15% on house rent and 75% of the rest on household expenses. If he saves ₹9,690, what is the total income of Ravi?

- Ans**
- 1. ₹45,800
 - 2. ₹45,700
 - 3. ₹45,600
 - 4. ₹45,850

Question ID : 26433061725

Status : Not Answered

Chosen Option : --

Q.13 Two numbers are in the ratio 3:4 and their LCM is 36. The sum of the numbers is:

- Ans**
- 1. 32
 - 2. 21
 - 3. 46
 - 4. 40

Question ID : 26433080350

Status : Not Answered

Chosen Option : --

Q.14 Two trains are running towards each other on parallel tracks with the same speed. The length of each train is 110 metre. If they cross each other in 11 sec, then the speed of each train is:

- Ans**
- 1. 30 m/sec
 - 2. 20 m/sec
 - 3. 10 m/sec
 - 4. 15 m/sec

Question ID : 26433081595

Status : Not Answered

Chosen Option : --



Q.15 Two lines PS and QR intersect at U, thus forming two triangles, $\Delta P U Q$ and $\Delta S U R$. If $\angle P Q U = 50^\circ$, $P Q = R S$, and $P Q \parallel R S$, find $\angle S R U$.

- Ans
- 1. 60°
 - 2. 120°
 - 3. 130°
 - 4. 50°

Question ID : 264330106940
Status : Not Answered
Chosen Option : --

Q.16 In a circular race of 2400 m, X and Y start from the same point and at the same time at speeds of 54 km/h and 126 km/h. In how much time will they meet again for the first time on the track when they are running in the opposite direction?

- Ans
- 1. 62 seconds
 - 2. 53 seconds
 - 3. 48 seconds
 - 4. 42 seconds

Question ID : 26433093176
Status : Not Answered
Chosen Option : --

Q.17 The marked price of a pan was ₹121. This price was 10% above the cost price. It was sold at a discount of 20% on the marked price. Find the approximate profit or loss percentage.

- Ans
- 1. Profit 12%
 - 2. Loss 6%
 - 3. Loss 12%
 - 4. Profit 6%

Question ID : 26433080022
Status : Not Answered
Chosen Option : --

Q.18 Two trains, 130 and 150 metres long, are running in the same direction at speeds of 84 km/h and 66 km/h respectively. In how much time will the first train cross the second?

- Ans
- 1. 45 sec
 - 2. 65 sec
 - 3. 56 sec
 - 4. 54 sec

Question ID : 26433082648
Status : Not Answered
Chosen Option : --



Q.19 Aditya and Vinay can complete a piece of work in 20 and 24 days, respectively. They began the work together, but Aditya left after some days and Vinay completed the remaining work in 15 days. After how many days did Aditya leave?

Ans

1. $3\frac{1}{11}$

2. $1\frac{1}{11}$

3. $4\frac{1}{11}$

4. $2\frac{1}{11}$

Question ID : 26433082600

Status : Not Answered

Chosen Option : --

Q.20 A sum of ₹26,200 is divided among P, Q and R such that P receives 20% less than Q and Q receives 10% less than R. The ratio between P's share and Q's share is:

Ans

1. 18 : 25

2. 5 : 4

3. 25 : 18

4. 4 : 5

Question ID : 26433087354

Status : Not Answered

Chosen Option : --

Q.21 The mean proportional of two numbers 'X' and 'Y' is 26. What is the value of 'X' if 'Y' is four times 'X'?

Ans

1. 14

2. 12

3. 13

4. 52

Question ID : 26433058223

Status : Not Answered

Chosen Option : --



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Q.22 $x^2 + 54x + 648 = ?$

- Ans
- 1. $(x - 36)(x + 18)$
 - 2. $(x - 36)(x - 18)$
 - 3. $(x + 36)(x + 18)$
 - 4. $(x + 36)(x - 18)$

Question ID : 26433085781
Status : Answered
Chosen Option : 3

Q.23 What would be the total amount (in Rs.) on principal amount Rs.1 lakh for 1 year at a compound interest rate of 12% per annum compounding is done half-yearly?

- Ans
- 1. 1,12,000
 - 2. 1,12,360
 - 3. 1,06,000
 - 4. 1,06,180

Question ID : 26433071328
Status : Not Answered
Chosen Option : --

Q.24 The average weight of 25 students was 62 kg. Later it was revealed that an entry of 42 kg was recorded in place of 52 kg. Also, it was revealed that a weight of 55 kg was recorded twice by mistake. What is the corrected mean?

- Ans
- 1. 60.2
 - 2. 61.2
 - 3. 62
 - 4. 62.4

Question ID : 26433063294
Status : Not Answered
Chosen Option : --

Q.25 A silver merchant professes to sell his goods at cost price but uses a 600 gm weight instead of the 1 kg weight. What is his gain percentage?
(Give your answer to two decimal points, without any rounding off.)

- Ans
- 1. 56.66%
 - 2. 66.66%
 - 3. 60.66%
 - 4. 63.33%

Question ID : 264330106890
Status : Not Answered
Chosen Option : --

