

Section : **Quantitative Aptitude**

Q.1 Radha bought a fridge and a washing machine together for ₹57300. She sold the fridge at a profit of 15% and washing machine at a loss of 24% and both are sold at the same price. The cost price of washing machine (in ₹) is:

- Ans**
- 1. 22800
 - 2. 28650
 - 3. 34500
 - 4. 24500

Question ID : **81616113469**
Status : **Answered**
Chosen Option : **3**



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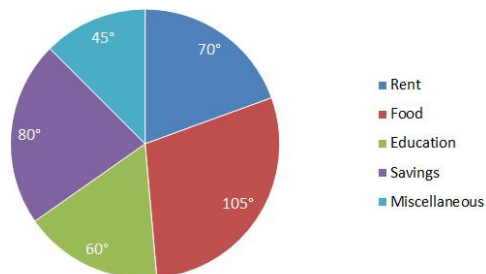
Q.2 A square has the perimeter equal to the circumference of a circle having radius 7 cm. What is the ratio of the area of the circle to area of the square?

(Use $\pi = \frac{22}{7}$)

- Ans**
- 1. 7 : 11
 - 2. 14 : 11
 - 3. 121 : 44
 - 4. 7 : 2

Question ID : **81616112363**
 Status : **Answered**
 Chosen Option : **2**

Q.3 Pie-Chart shows the degree wise breakup of expenditure of a family in a month. Total income of the family is ₹144000.



What is the expenditure (in ₹) on education?

- Ans**
- 1. 20000
 - 2. 24000
 - 3. 36000
 - 4. 12000

Question ID : **81616113182**
 Status : **Answered**
 Chosen Option : **2**

Q.4 If $(x + 6)^3 + (2x + 3)^3 + (3x + 5)^3 = (3x + 18)(2x + 3)(3x + 5)$, then what is the value of x ?

- Ans**
- 1. $-\frac{5}{3}$
 - 2. $\frac{7}{3}$
 - 3. $-\frac{7}{3}$
 - 4. $\frac{5}{3}$

Question ID : **81616113475**
 Status : **Answered**
 Chosen Option : **3**



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Q.5 The value of $423 \div \left[270 \div \frac{3}{7} \times 35 + \left(17 \div \frac{1}{3} \right) - \left(8\frac{1}{2} - \frac{5}{2} \right) \right]$ is:

- Ans
- 1. $\frac{43}{2455}$
 - 2. $\frac{47}{2455}$
 - 3. $\frac{51}{2455}$
 - 4. $\frac{41}{2455}$

Question ID : 81616113465
 Status : Not Answered
 Chosen Option : --

Q.6 If $x^4 + x^2y^2 + y^4 = 21$ and $x^2 + xy + y^2 = 3$, then what is the value of $(-xy)$?

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

Question ID : 81616113679
 Status : Answered
 Chosen Option : 1

Q.7 A tangent is drawn from a point P to a circle, which meets the circle at T such that $PT = 8$ cm. A secant PAB intersects the circle in points A and B. If $PA = 5$ cm, what is the length (in cm) of the chord AB?

- Ans
- 1. 7.8
 - 2. 6.4
 - 3. 8.4
 - 4. 8.0

Question ID : 81616112367
 Status : Answered
 Chosen Option : 1

Q.8 $(\operatorname{cosec}A - \cot A)(1 + \cos A) = ?$

- Ans
- 1. $\sin A$
 - 2. $\operatorname{cosec}A$
 - 3. $\cot A$
 - 4. $\cos A$

Question ID : 81616112272
 Status : Answered
 Chosen Option : 1



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Q.9 In $\triangle ABC$, D is a point on BC such that $\angle BAD = \frac{1}{2} \angle ADC$ and $\angle BAC = 77^\circ$ and $\angle C = 45^\circ$. What is the measure of $\angle ADB$?

- Ans**
- 1. 77°
 - 2. 64°
 - 3. 45°
 - 4. 58°

Question ID : **81616113480**
Status : **Answered**
Chosen Option : **2**

Q.10 The area of a circular path enclosed by two concentric circles is 3080 m^2 . If the difference between the radius of the outer edge and that of inner edge of the circular path is 10 m, what is the sum (in m) of the two radii? (Take $\pi = \frac{22}{7}$)

- Ans**
- 1. 84
 - 2. 112
 - 3. 98
 - 4. 70

Question ID : **81616113681**
Status : **Answered**
Chosen Option : **3**

Q.11 In triangle ABC, D and E are the mid points of AB and BC respectively. If $\text{area}(\triangle CED) = 8 \text{ cm}^2$, then what is the $\text{area}(\triangle DEC)$ in cm^2 ?

- Ans**
- 1. 16
 - 2. 32
 - 3. 21
 - 4. 24

Question ID : **81616112370**
Status : **Not Answered**
Chosen Option : **--**

Q.12 The cost price of an article is ₹250. A shopkeeper gains 20% by selling it at a discount of 36% on its marked price. What is the marked price (in ₹) of the article?

- Ans**
- 1. 450
 - 2. 380.50
 - 3. 468.75
 - 4. 475

Question ID : **81616114073**
Status : **Answered**
Chosen Option : **3**



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Q.13 The average weight of students of section A and B having 40 students each is 45.5 kg and 44.2 kg respectively. Two students of section A having average weight 48.75 kg were shifted to section B and 2 students of section B were shifted to section A, making the average weight of both the sections equal. What is the average weight (in kg) of the students who were shifted from section B to section A?

- Ans**
- 1. 34.25
 - 2. 35
 - 3. 35.75
 - 4. 34.5

Question ID : **81616112355**
Status : **Not Answered**
Chosen Option : --

Q.14 If $\frac{\sin^2 \theta}{\tan^2 \theta - \sin^2 \theta} = 5$, θ is an acute angle, then the value of $\frac{24 \sin^2 \theta - 15 \sec^2 \theta}{6 \operatorname{cosec}^2 \theta - 7 \cot^2 \theta}$ is:

- Ans**
- 1. -14
 - 2. 14
 - 3. 2
 - 4. -2

Question ID : **81616113684**
Status : **Answered**
Chosen Option : 1

Q.15 At what rate percent per annum will ₹7200 amount to ₹7938 in one year, if interest is compounded half yearly?

- Ans**
- 1. 8
 - 2. 5
 - 3. 10
 - 4. 12

Question ID : **81616113673**
Status : **Answered**
Chosen Option : 2

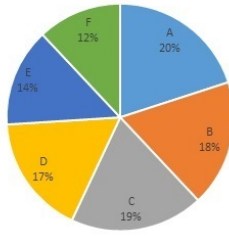


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Q.16 The following Pie chart represents the percentage-wise distribution of 800 students of class XII in a school in six different sections A, B, C, D, E and F.



The table given below shows the number of girls of class XII in six different sections A, B, C, D, E and F.

Section	A	B	C	D	E	F
No. of girls	102	80	104	98	0	60

The total number of girls in sections B, C and D together is what percent more than the total number of boys in sections A, B and D together?

- Ans**
- 1. 80
 - 2. 76.25
 - 3. 50
 - 4. 65.75

Question ID : **81616113184**
 Status : **Not Answered**
 Chosen Option : --

Q.17 If x is subtracted from each of 24, 40, 33 and 57, the numbers, so obtained are in proportion. The ratio of $(5x + 12)$ to $(4x + 15)$ is:

- Ans**
- 1. 7 : 4
 - 2. 4 : 3
 - 3. 14 : 13
 - 4. 7 : 5

Question ID : **81616114076**
 Status : **Answered**
 Chosen Option : **3**

Q.18 Three persons A, B and C donate 10%, 7% and 9% respectively of their monthly salaries to a charitable trust. Monthly salaries of A and B are equal and the difference between the donations of A and B is ₹900. If the total donation by A and B is ₹600 more than that of C, then what is the monthly salary (in ₹) of C?

- Ans**
- 1. 60000
 - 2. 45000
 - 3. 55000
 - 4. 50000

Question ID : **81616113670**
 Status : **Not Answered**
 Chosen Option : --



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Q.19 A car can cover a distance of 144 km in 1.8 hours. In what time (in hours) will it cover double the distance when its speed is increased by 20%?

- Ans**
- 1. 3
 - 2. 2
 - 3. 3.2
 - 4. 2.5

Question ID : **81616114079**
Status : **Answered**
Chosen Option : **1**

Q.20 To do a certain work, efficiencies of A and B are in the ratio 7 : 5. Working together, they can complete the work in $17\frac{1}{2}$ days. In how many days, will B alone complete 50% of the same work?

- Ans**
- 1. 15
 - 2. 42
 - 3. 21
 - 4. 30

Question ID : **81616113674**
Status : **Answered**
Chosen Option : **3**

Q.21 If $0^\circ < \theta < 90^\circ$, $\sqrt{\frac{\sec^2 \theta + \operatorname{cosec}^2 \theta}{\tan^2 \theta - \sin^2 \theta}}$ is equal to:

- Ans**
- 1. $\sin^2 \theta$
 - 2. $\sec^3 \theta$
 - 3. $\sec^2 \theta$
 - 4. $\operatorname{cosec}^3 \theta$

Question ID : **81616113888**
Status : **Answered**
Chosen Option : **4**



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Q.22 Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D, E & F.

Years Institutes	2014	2015	2016	2017	2018
A	110	150	165	180	205
B	120	180	176	200	220
C	140	220	180	175	225
D	125	210	175	180	230
E	150	200	160	200	240
F	165	230	200	220	210

The difference between the average number of students enrolled for VC in institute F in 2015, 2017 and 2018 and the average number of students enrolled in all the six institutes in 2014, is:

- Ans**
- 1. 82
 - 2. 89
 - 3. 85
 - 4. 88

Question ID : **81616113991**
 Status : **Answered**
 Chosen Option : **3**

Q.23 If the six-digit number $5z3x4y$ is divisible by 7, 11 and 13, then what is the value of $(x + y - z)$?

- Ans**
- 1. 5
 - 2. 4
 - 3. 3
 - 4. 6

Question ID : **81616113666**
 Status : **Not Answered**
 Chosen Option : --

Q.24 If $x + \frac{1}{x} = 2\sqrt{5}$, then what is the value of $\frac{(x^4 + \frac{1}{x^2})}{x^2 + 1}$?

- Ans**
- 1. 14
 - 2. 23
 - 3. 20
 - 4. 17

Question ID : **81616114082**
 Status : **Answered**
 Chosen Option : **4**



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Q.25 Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D, E & F.

Years \ Institutes	2014	2015	2016	2017	2018
A	110	150	165	180	205
B	120	180	176	200	220
C	140	220	180	175	225
D	125	210	175	180	230
E	150	200	160	200	240
F	165	230	200	220	210

The total number of students enrolled for VC in institutes D and F in 2014 is what percent of the total number of students enrolled in institutes A, B and C in 2018? (correct to one decimal point)

- Ans**
- 1. 43.2
 - 2. 42.8
 - 3. 43.8
 - 4. 44.6

Question ID : 81616113993

Status : Answered

Chosen Option : 4



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