

Section : Quantitative Aptitude

Q.1 A sum of ₹11,236 is divided among A, B and C such that the ratio of the shares of A and B is 3 : 5 and the ratio of the shares of A and C is 4 : 7. The share of B is:

- Ans
- 1. ₹3,392
 - 2. ₹2,544
 - 3. ₹4,452
 - 4. ₹4,240

Question ID : 6549786482
Status : Answered
Chosen Option : 3

Q.2 A shopkeeper earns 17% profit by selling an article at 10% discount on its marked price. If its cost price is ₹480, then the marked price (in ₹) of the article is:

- Ans
- 1. 640
 - 2. 624
 - 3. 636
 - 4. 600

Question ID : 6549787792
Status : Not Answered
Chosen Option : --

Q.3 $\triangle PQR$ is inscribed in a circle. The bisector of $\angle P$ cuts QR at S and the circle at T . If $PR = 5$ cm, $PS = 6$ cm and $ST = 4$ cm, then the length (in cm) of PQ is:

- Ans
- 1. 13
 - 2. 12
 - 3. 10
 - 4. 15

Question ID : 6549787798
Status : Answered
Chosen Option : 3

Q.4 The average weight of some students in a group is 58 kg. If 8 students of average weight 54 kg leave the group, and 3 students weighing 53.6 kg, 54 kg and 57.4 kg join the group, then the average weight of the remaining students in the group will increase by 575 g. The number of students, initially, in the group is:

- Ans
- 1. 40
 - 2. 45
 - 3. 35
 - 4. 50

Question ID : 6549786478
 Status : Answered
 Chosen Option : 2

Q.5 A man buys goods for ₹8,000. He sells 30% of those goods at a profit of 12% and 40% of the remaining goods at a profit of 25%. At what profit percentage should he sell the remaining goods to gain 30% in the entire transaction (correct to one decimal place)?

- Ans
- 1. 42.6%
 - 2. 46.2%
 - 3. 48.4%
 - 4. 31.6%

Question ID : 6549787794
 Status : Answered
 Chosen Option : 1

Q.6 If $x + \frac{1}{x} = \sqrt{7}$, then what is the value of $(x^2 + 1) \div \left[x^4 + \left(\frac{1}{x^2}\right) \right]$?

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

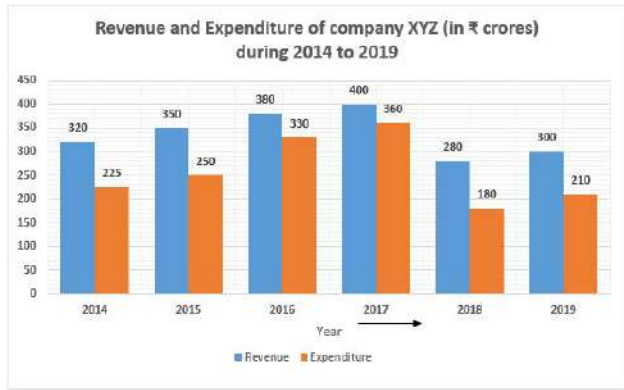
Question ID : 6549787802
 Status : Answered
 Chosen Option : 1

Q.7 ABCD is a cyclic quadrilateral whose diagonals intersect at P. If $\angle DBC = 72^\circ$ and $\angle BAC = 42^\circ$, then the measure of $\angle BCD$ (in degrees) is:

- Ans
- 1. 66
 - 2. 65
 - 3. 60
 - 4. 57

Question ID : 6549786484
 Status : Answered
 Chosen Option : 1

Q.8 Study the given graph and answer the question that follows.



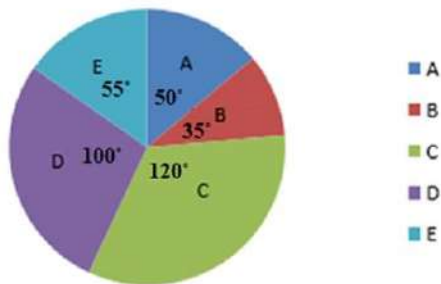
What is the ratio of the total revenue of the company in 2015 and 2018 to the total expenditure in 2017 and 2018?

- Ans
- 1. 9 : 10
 - 2. 6 : 5
 - 3. 7 : 6
 - 4. 5 : 4

Question ID : 6549787809
 Status : Answered
 Chosen Option : 3

Q.9 2019 में एक कंपनी के पांच उत्पादों (A, B, C, D और E) की मात्रात्मक बिक्री वितरण को दर्शाने वाले पाई आरेख का अध्ययन करें और उसके बाद दिये गए प्रश्न का उत्तर दें।

पांच उत्पादों (A, B, C, D और E) की मात्रात्मक बिक्री वितरण



यदि 2019 में उत्पाद C की 2100 इकाइयां बेची गई थी और 2020 में कंपनी द्वारा बेची गई इकाइयों की कुल संख्या 2019 में बेची गई इकाइयों की संख्या से 28% अधिक थी, तो 2020 में कंपनी द्वारा कितनी इकाइयां बेची गई थीं?

- Ans
- 1. 8576
 - 2. 7428
 - 3. 6300
 - 4. 8064

Question ID : 6549786195
 Status : Answered
 Chosen Option : 1

Q.10 The price of an article increases by 5% every year. If the difference between its price at the end of the second and the third year is ₹52.50, then what will be its price at the end of the first year?

- Ans**
- 1. ₹1,000
 - 2. ₹950
 - 3. ₹840
 - 4. ₹900

Question ID : 6549786480
Status : Answered
Chosen Option : 2

Q.11 The value of $6 \times 3 \div 8$ of $6 - 6 \div 4 \times (5 - 7) + 5 - 3 \times 4 \div 6$ of 3 is:

- Ans**
- 1. $7\frac{17}{24}$
 - 2. $4\frac{1}{3}$
 - 3. $5\frac{5}{8}$
 - 4. $5\frac{11}{24}$

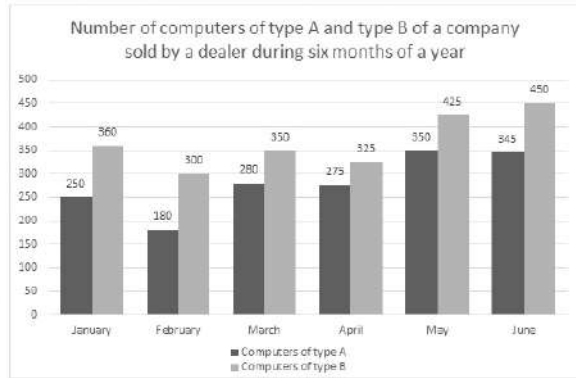
Question ID : 6549787805
Status : Answered
Chosen Option : 4

Q.12 A sum of ₹ x amounts to ₹9,246 in 4 years and to ₹11,298.75 in $7\frac{1}{2}$ years, at $y\%$ p.a. simple interest. The values of x and y are, respectively:

- Ans**
- 1. 6900 and 8.5
 - 2. 6800 and 8.5
 - 3. 6500 and 8
 - 4. 7200 and 7.5

Question ID : 6549786483
Status : Answered
Chosen Option : 1

Q.13 Study the given graph and answer the question that follows.



The total number of computers of type A sold in January and May is what percentage less than the total number of computers of type B sold from March to May? (correct to one decimal place)

- Ans
- 1. 40.9
 - 2. 54.5
 - 3. 83.3
 - 4. 45.5

Question ID : 6549786499
 Status : Answered
 Chosen Option : 3

Q.14 $\frac{(1+\cos\theta)(\operatorname{cosec}\theta - \cot\theta)\sec\theta}{\sin\theta(1-\sin\theta)(\sec\theta + \tan\theta)} = ?$

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

Question ID : 6549786494
 Status : Answered
 Chosen Option : 4

Q.15 In $\triangle ABC$, $DE \parallel BC$, where D and E are points on the sides AB and AC , respectively. If $AD = 2$ cm, $BD = 5.2$ cm, $AC = 9$ cm and $AE = x$ cm, then what is the value of x ?

- Ans
- 1. 3.5
 - 2. 4
 - 3. 3
 - 4. 2.5

Question ID : 6549786486
 Status : Answered
 Chosen Option : 1

Q.16 If $\sin\theta(2\sin\theta + 3) = 2$, $0^\circ < \theta < 90^\circ$, then what is the value of $(\sec^2\theta + \cot^2\theta - \cos^2\theta)$?

- Ans
- 1. $\frac{13}{3}$
 - 2. $\frac{31}{12}$
 - 3. $\frac{7}{2}$
 - 4. $\frac{43}{12}$

Question ID : 6549787808
 Status : Answered
 Chosen Option : 2

Q.17 The area of a triangular field whose sides are 65 m, 72 m, and 97 m is equal to the area of a rectangular park whose sides are in the ratio of 5 : 13. What is the perimeter (in m) of the rectangular park?

- Ans
- 1. 108
 - 2. 180
 - 3. 216
 - 4. 144

Question ID : 6549787790
 Status : Answered
 Chosen Option : 3

Q.18 A, B and C together can complete a work in x , 30 and 45 days, respectively. B and C worked together for 6 days. The remaining work was completed by A alone in 12 days. The value of x is:

- Ans
- 1. 18
 - 2. 20
 - 3. 24
 - 4. 15

Question ID : 6549787788
 Status : Answered
 Chosen Option : 2

Q.19 If $x + y + z = 3$, $x^2 + y^2 + z^2 = 45$ and $x^3 + y^3 + z^3 = 69$, then what is the value of xyz ?

- Ans
- 1. -40
 - 2. 40
 - 3. -30
 - 4. 30

Question ID : 6549787803
 Status : Answered
 Chosen Option : 4

Q.20 In $\triangle ABC$, D and E are points on sides AB and BC , respectively, such that $BD : DA = 1 : 2$ and $CE : EB = 1 : 4$. If DC and AE intersect at F , then $FD : FC$ is equal to:

- Ans
- 1. 3 : 2
 - 2. 5 : 2
 - 3. 8 : 3
 - 4. 4 : 1

Question ID : 6549787800
Status : Answered
Chosen Option : 2

Q.21 The six-digit number 537xy5 is divisible by 125. How many such six-digit numbers are there?

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

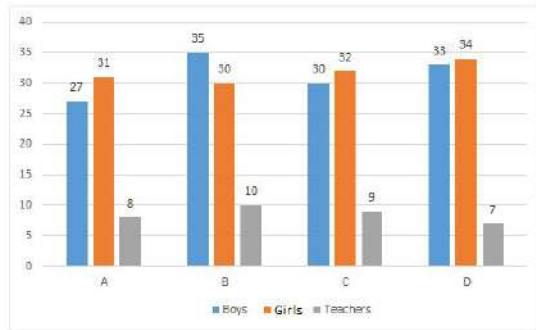
Question ID : 6549786491
Status : Answered
Chosen Option : 3

Q.22 If $4\sqrt{3}x^2 + 5x - 2\sqrt{3} = (Ax + 2)(Bx + C)$, then what is the value of $(A + B + C)$? ($A > 0$)

- Ans
- 1. 4
 - 2. $4 + \sqrt{3}$
 - 3. $2\sqrt{3}$
 - 4. $4 - \sqrt{3}$

Question ID : 6549786488
Status : Answered
Chosen Option : 2

Q.23 The given bar-graph shows the number of boys and girls in classes A, B, C and D in a school, and the number of teachers allotted to each class.



Which class has the least percentage of girls?

- Ans 1. B
 2. D
 3. C
 4. A

Question ID : 6549788820
 Status : Answered
 Chosen Option : 1

Q.24 Two cars X and Y start running towards each other from two places 216 km apart. The ratio of the speeds of X and Y is 5 : 7 and the speed of X is 60 km/h. After how many minutes will X and Y meet each other?

- Ans 1. 75
 2. 72
 3. 90
 4. 80

Question ID : 6549786476
 Status : Answered
 Chosen Option : 2

Q.25 If $\sin \theta = \frac{11}{15}$, then the value of $(\sec \theta - \tan \theta)$ is:

- Ans 1. $\frac{2\sqrt{26}}{13}$
 2. $\frac{\sqrt{26}}{13}$
 3. $\frac{4}{\sqrt{26}}$
 4. $\frac{1}{\sqrt{26}}$

Question ID : 6549787806
 Status : Answered
 Chosen Option : 2