





Section : Quantitative Aptitude

**Q.1** In a class of 60 students, 40% are girls. The average weight of the whole class is 59.2 kg and the average weight of the girls is 55 kg. What is the average weight of the boys?

- Ans
-  1. 61 kg
  -  2. 63 kg
  -  3. 60 kg
  -  4. 62 kg

**Q.2** The difference between compound interest and simple interest on ₹  $x$  at 8% per annum for 2 years is ₹48. What is the value of  $x$ ?

- Ans**
- ☒ 1. 8000
  - ☒ 2. 7400
  - ☒ 3. 7500
  - ☒ 4. 7800

**Q.3** If  $3\sin\theta = 4\cos\theta$ , then  $\tan^2\theta + \sin\theta - \cos\theta$  is equal to:

- Ans**
- ☒ 1.  $\frac{89}{45}$
  - ☒ 2.  $\frac{17}{9}$
  - ☒ 3. 2
  - ☒ 4.  $\frac{88}{45}$

**Q.4** In a circle with centre O, an arc  $ABC$  subtends an angle of  $132^\circ$  at the centre of the circle. Chord AB is produced to point P. Then  $\angle CBP$  is equal to:

- Ans**
- ☒ 1.  $48^\circ$
  - ☒ 2.  $76^\circ$
  - ☒ 3.  $66^\circ$
  - ☒ 4.  $68^\circ$

**Q.5** Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

If the total production in three states in all six years is represented by a pie-chart, what is the central angle of the sector representing production in the year 2014, (to nearest whole number)?

- Ans**
- ☒ 1.  $61^\circ$
  - ☒ 2.  $63^\circ$
  - ☒ 3.  $65^\circ$

 4.  $59^\circ$

Q.6 If  $a : b = 2 : 3$ , then  $(5a + 3b) : (6a - 2b)$  is equal to:

- Ans  1.  $3 : 2$   
 2.  $10 : 7$   
 3.  $19 : 6$   
 4.  $17 : 5$


Q.7 If  $a + b + c = 6$  and  $a^3 + b^3 + c^3 - 3abc = 126$ , then  $ab + bc + ca$  is equal to:

- Ans  1. 8  
 2. 5  
 3. 6  
 4. 12

Q.8 The efficiencies of A, B and C are in the ratio of  $2 : 3 : 5$ . Working together, they can complete a task in 6 days. In how many days will A alone complete 20% of that task?

- Ans  1. 4  
 2. 8  
 3. 5  
 4. 6

Q.9 The radii of two circular faces of the frustum of a cone of height 10.5 cm are 5 cm and 3 cm respectively. What is its volume in  $\text{cm}^3$  ( $\pi = \frac{22}{7}$ )?

- Ans  1. 564  
 2. 545  
 3. 552  
 4. 539

Chosen Option : 3

Q.10

An article is sold for ₹612 after successive discounts of 25% and 15%. What is the marked price of the article?

- Ans
- ☒ 1. ₹960
  - ☐ 2. ₹940
  - ☐ 3. ₹980
  - ☐ 4. ₹1000

Q.11 If  $\sqrt{x} - \frac{1}{\sqrt{x}} = 2\sqrt{2}$ , then  $x^2 + \frac{1}{x^2}$  is equal to:

- Ans
- ☐ 1. 104
  - ☒ 2. 98
  - ☐ 3. 102
  - ☐ 4. 100

Q.12 Two articles are sold for ₹4880, on one, the seller gained 22% and on the other he lost 20%. What is his overall gain or loss percentage, nearest to one decimal place?

- Ans
- ☐ 1. 3.6% gain
  - ☒ 2. 3.4% loss
  - ☐ 3. 3.6% loss
  - ☐ 4. 3.4% gain

Q.13 If  $\operatorname{cosec} 3\theta = \sec(20^\circ + 2\theta)$ , then  $\theta$  is equal to:

- Ans
- ☐ 1.  $15^\circ$
  - ☐ 2.  $20^\circ$
  - ☐ 3.  $30^\circ$
  - ☒ 4.  $14^\circ$

Q.14 Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the ratio of the production of rice in all three states in the year 2014 to that in 2016?

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- Ans ☒ 1. 87 : 100  
☐ 2. 85 : 102  
☐ 3. 89 : 100  
☐ 4. 85 : 103

**Q.15** Walking at  $\frac{3}{4}$  of his usual speed, a person reaches his office 18 minutes late than the usual time. His usual time in minutes is:

- Ans ☒ 1. 54  
☐ 2. 60  
☐ 3. 72  
☐ 4. 45

**Q.16** The value of  $\sin^2 20^\circ + \sin^2 70^\circ - \tan^2 45^\circ + \sec 60^\circ$  is equal to:

- Ans ☐ 1. 2.5  
☒ 2. 2  
☐ 3. 1  
☐ 4. 3

**Q.17** If  $a + b = 5$  and  $ab = 3$ , then  $(a^3 + b^3)$  is equal to:

- Ans ☒ 1. 80  
☐ 2. 75  
☐ 3. 70  
☐ 4. 65

**Q.18** The price of sugar is increased by 24%. A person wants to increase his expenditure by 15% only. By what percentage, correct to one decimal place, should he reduce his consumption?

- Ans ☐ 1. 7.1  
☐ 2. 6.9  
☐ 3. 7.5  
☒ 4. 7.3

Q.19 In a circle of radius 13cm, a chord is at a distance of 5cm from its centre. What is the length of the chord?

- Ans
- ☐ 1. 12cm
  - ☒ 2. 24cm
  - ☐ 3. 18cm
  - ☐ 4. 20cm

Q.20 What is the value of  $x$  so that the seven digit number  $6913x08$  is divisible by 88?

- Ans
- ☐ 1. 4
  - ☒ 2. 8
  - ☐ 3. 6
  - ☐ 4. 2

Q.21 The value of:

$$7.5 + (5.4 \div 4.5 \times 2) - 8 \times 4 \div 3.2$$

- Ans
- ☐ 1. 0.2
  - ☐ 2.  $-0.2$
  - ☐ 3. 0.1
  - ☒ 4.  $-0.1$

Q.22 Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the average production of rice in state A over the years (in million tonnes)?

- Ans
- ☐ 1. 5.8
  - ☐ 2. 5.9
  - ☒ 3. 6
  - ☐ 4. 6.1





**Q.23** Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the percentage increase in the production of rice in B from 2014 to 2016?

- Ans
-  1. 17.75
  -  2. 17.25
  -  3. 18.75
  -  4. 18.25

**Q.24**  $\triangle ABC \sim \triangle RQP$  and  $PQ=10\text{cm}$ ,  $QR=12\text{cm}$  and  $RP=18\text{cm}$ . If  $\text{ar}(\triangle ABC) : \text{ar}(\triangle PQR) = \frac{4}{9}$ , then AB is equal to:

- Ans
-  1. 8cm
  -  2. 12cm
  -  3. 9cm
  -  4.  $\frac{20}{3}\text{cm}$

**Q.25** In  $\triangle ABC$ , P is a point on BC such that  $BP : PC = 3 : 4$  and Q is the midpoint of BP. Then  $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$  is equal to:

- Ans
-  1. 3 : 8
  -  2. 2 : 7
  -  3. 1 : 4
  -  4. 3 : 14





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