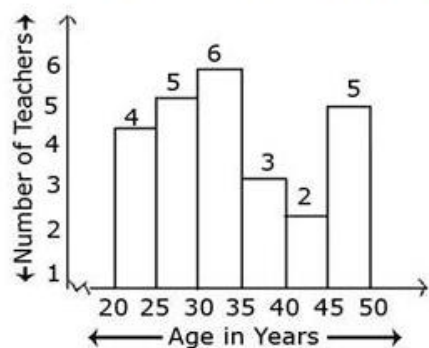


Section : Quantitative Aptitude(Basic Arithmetic Skill)

Q.1 Study the following graph and answer the question based on the graph.



How many teachers are aged 45 years or more but less than 50 years?

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

Question ID : 8161613112

Status : Answered

Chosen Option : 4

Q.2 A mobile phone was sold for ₹31,500 after giving two successive discounts of 30% and 10%, respectively. What was the marked price of the mobile?

- Ans
- 1. ₹55,000
 - 2. ₹50,000
 - 3. ₹35,000
 - 4. ₹52,500

Question ID : 8161613095

Status : Answered

Chosen Option : 2

Q.3 Given that $2^{20} + 1$ is completely divisible by a whole number, which of the following is completely divisible by the same number?

- Ans
- 1. $2^{15} + 1$
 - 2. 5×2^{30}
 - 3. $2^{90} + 1$
 - 4. $2^{60} + 1$

Question ID : **8161613107**
Status : **Answered**
Chosen Option : **4**

Q.4 The volume of the water in two tanks, A and B, is in the ratio of 6 : 5. The volume of water in tank A is increased by 30%. By what percentage should the volume of water in tank B be increased so that both the tanks have the same volume of water?

- Ans
- 1. 56%
 - 2. 30%
 - 3. 18%
 - 4. 15%

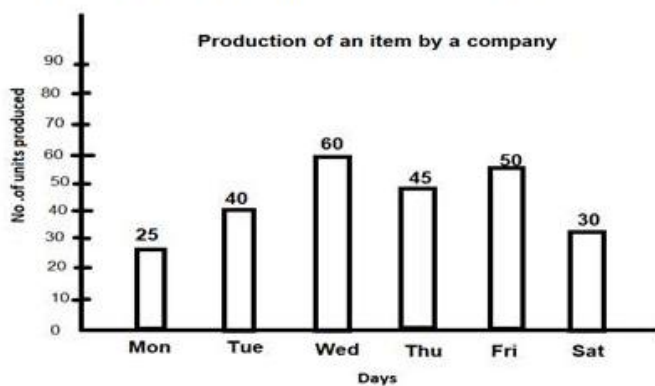
Question ID : **8161613096**
Status : **Answered**
Chosen Option : **2**

Q.5 The volume of a tank is 72 cubic metres. Water is poured into it at the rate of 60 litres per minute. How much time will it take to fill the tank?

- Ans
- 1. 10 hours
 - 2. 20 hours
 - 3. 6 hours
 - 4. 12 hours

Question ID : **8161613093**
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.6 Study the following graph and answer the question based on the graph.



On which day the production was 1/5th of the total production?

- Ans
- 1. Thursday
 - 2. Wednesday
 - 3. Tuesday
 - 4. Friday

Question ID : 8161613115
 Status : Answered
 Chosen Option : 4

Q.7 The value of $\sin 20^\circ \cos 70^\circ + \sin 70^\circ \cos 20^\circ$ is:

- Ans
- 1. 1
 - 2. 0
 - 3. $\frac{1}{\sqrt{2}}$
 - 4. 2

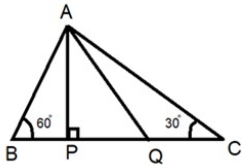
Question ID : 8161613109
 Status : Answered
 Chosen Option : 4

Q.8 In a circle of radius 10 cm, PQ and RS are two parallel chords of lengths 16 cm and 12 cm, respectively. What is the distance between the chords if they are on opposite sides of the centre?

- Ans
- 1. 14 cm
 - 2. 6 cm
 - 3. 8 cm
 - 4. 2 cm

Question ID : 8161613101
 Status : Answered
 Chosen Option : 1

Q.9 In the given figure, AP is perpendicular to BC, and AQ is the bisector of angle A. What will be the measure of angle PQA?



- Ans**
- 1. 30°
 - 2. 50°
 - 3. 75°
 - 4. 60°

Question ID : 8161613103
 Status : Answered
 Chosen Option : 4

Q.10 Salma buys an article and then sells it for ₹810. If she loses 10%, then at what price should she sell it to gain 4%?

- Ans**
- 1. ₹900
 - 2. ₹936
 - 3. ₹864
 - 4. ₹729

Question ID : 8161613097
 Status : Answered
 Chosen Option : 2

Q.11 A and B separately can build a wall in 12 and 16 days, respectively. If they work for 1 day alternatively, starting with A, in how many days will the wall be built?

- Ans**
- 1. $6\frac{3}{4}$ days
 - 2. $12\frac{2}{3}$ days
 - 3. $13\frac{2}{3}$ days
 - 4. $7\frac{2}{3}$ days

Question ID : 8161613091
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.12 What number must be added to each of the numbers 8, 13, 26 and 40 so that the numbers obtained in this order are in proportion?

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

Question ID : 8161613098

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.13 $(ax + by)$ is a factor of:

- Ans
- 1. $a^2x^2 + 2ab - b^2y^2$
 - 2. $a^2x^2 + 2abxy + b^2y^2$
 - 3. $a^2x^2 + 2ab + b^2y^2$
 - 4. $a^2x^3 + 2abx + b^2y^2x$

Question ID : 8161613105

Status : **Answered**

Chosen Option : 2

Q.14 The angles of a triangle are in the ratio of 3 : 4 : 8. The triangle is:

- Ans
- 1. obtuse angled
 - 2. right angled
 - 3. acute angled
 - 4. isosceles

Question ID : 8161613102

Status : **Answered**

Chosen Option : 1

Q.15 The value of $10 - [121 \div (11 \times 11) - (-4) - \{3 - (8 - 1)\}]$ is:

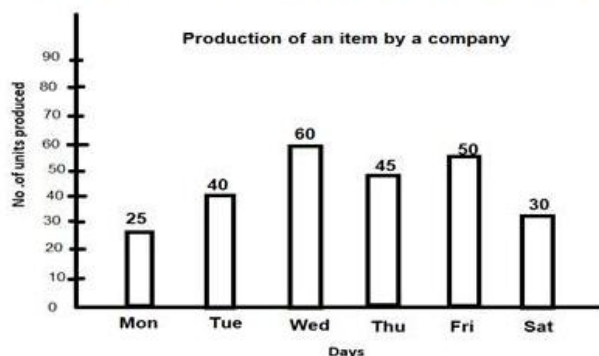
- Ans
- 1. 0
 - 2. -1
 - 3. 19
 - 4. 1

Question ID : 8161613108

Status : **Answered**

Chosen Option : 4

Q.16 Study the following graph and answer the question based on the graph.



What was the percentage decline in the production from Friday to Saturday?

- Ans
- 1. 10%
 - 2. $66\frac{2}{3}\%$
 - 3. 40%
 - 4. 20%

Question ID : 8161613114
 Status : Answered
 Chosen Option : 3

Q.17 If $\tan 4A = \cot (A - 20^\circ)$, $0^\circ < \theta < 90^\circ$, then the value of A is:

- Ans
- 1. 14°
 - 2. 22°
 - 3. 5°
 - 4. 80°

Question ID : 8161613110
 Status : Answered
 Chosen Option : 1

Q.18 A player has a certain average for 15 innings. In the 16th inning he scores 120, thereby his average increases by 6 runs. What is the new average?

- Ans
- 1. 8
 - 2. 30
 - 3. 24
 - 4. 20

Question ID : 8161613094
 Status : Answered
 Chosen Option : 4

Q.19 If $\sin\theta + \operatorname{cosec}\theta = 2$, then the value of $\sin^2\theta + \operatorname{cosec}^2\theta$ is:

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

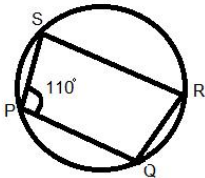
Question ID : 8161613111
Status : Answered
Chosen Option : 2

Q.20 In how many years will a sum of ₹320 amount to ₹405 if interest is compounded at 12.5% per annum?

- Ans
- 1. 2 years
 - 2. 1 year
 - 3. $1\frac{1}{2}$ years
 - 4. $2\frac{1}{2}$ years

Question ID : 8161613099
Status : Answered
Chosen Option : 1

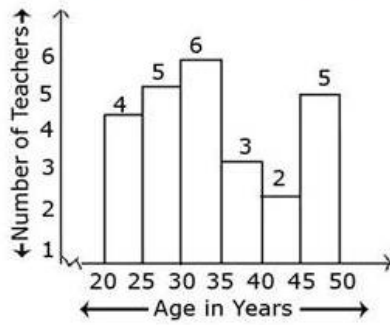
Q.21 In the given figure, PQRS is a cyclic quadrilateral. What is the measure of the angle PQR if PQ is parallel to SR?



- Ans
- 1. 110°
 - 2. 80°
 - 3. 100°
 - 4. 70°

Question ID : 8161613100
Status : Answered
Chosen Option : 4

Q.22 Study the following graph and answer the question based on the graph.



What percentage of the total number of teachers are aged less than 45 years?

- Ans
- 1. 80%
 - 2. 60%
 - 3. 30%
 - 4. 8%

Question ID : 8161613113
 Status : Answered
 Chosen Option : 1

Q.23 $2x - 3y$ is a factor of:

- Ans
- 1. $4x^2 + 2x - 3y + 9y^2 - 12xy$
 - 2. $4x^2 + 9y^2 + 12xy$
 - 3. $8x^3 + 27y^3$
 - 4. $4x^2 + 2x - 3y + 36y^2 + 12xy$

Question ID : 8161613106
 Status : Answered
 Chosen Option : 2

Q.24 Two trains start at same time from stations A and B, 1800 km apart, and proceed towards each other at an average speed of 44 km/h and 46 km/h, respectively. Where will the trains meet?

- Ans
- 1. 900 km from station B
 - 2. 920 km from station A
 - 3. 880 km from station B
 - 4. 880 km from station A

Question ID : 8161613092
 Status : Not Answered
 Chosen Option : --

Q.25 The area of a square park is $16x^2 + 8x + 1$. What is the length of the park?

- Ans
- 1. $(4x - 1)$ units
 - 2. $(4x + 1)$ units
 - 3. $4x$ units
 - 4. $(4x + 1)^2$ units

Question ID : 8161613104
Status : Answered
Chosen Option : 2