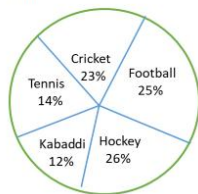


Section : Quantitative Aptitude(Basic Arithmetic Skill)

Q.1 The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800.



If 24 students playing cricket are shifted to Kabaddi, then find the new ratio of the number of students in Cricket to those in Kabaddi.

- Ans**
- ✓ 1. 31 : 18
 - ✗ 2. 30 : 17
 - ✗ 3. 31 : 16
 - ✗ 4. 30 : 13

Question ID : 4244291287
Status : Answered
Chosen Option : 1

Q.2 Multi bought a TV for ₹8,800 including GST at 10%. What is the original cost of the TV?

- Ans
- 1. ₹8,800
 - 2. ₹8,000
 - 3. ₹7,920
 - 4. ₹9,600

Question ID : 4244291268
Status : Answered
Chosen Option : 2

Q.3 If $x^3 + y^3 = 16$ and $x + y = 4$, then the value of $x^4 + y^4$ is:

- Ans
- 1. 48
 - 2. 32
 - 3. 64
 - 4. 30

Question ID : 4244291278
Status : Answered
Chosen Option : 2

Q.4 If $\frac{4}{3}\left(x^2 + \frac{1}{x^2}\right) = 110\frac{2}{3}$, find $\frac{1}{9}\left(x^3 - \frac{1}{x^3}\right)$, where $x > 0$.

- Ans
- 1. 74
 - 2. 76
 - 3. 84
 - 4. 85

Question ID : 4244291277
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.5 A is a point at a distance 26 cm from the centre O of a circle of radius 10 cm. AP and AQ are the tangents to the circle at the point of contacts P and Q. If a tangent BC is drawn at a point R lying on the minor arc PQ to intersect AP at B and AQ at C, then the perimeter of $\triangle ABC$ is:

- Ans
- 1. 48 cm
 - 2. 46 cm
 - 3. 42 cm
 - 4. 40 cm

Question ID : 4244291280
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.6 Evaluate: $[7 + 7 \times (7 + 7 \div 7)] + 7 \div 7$.

- Ans
- 1. 10
 - 2. 64
 - 3. 5
 - 4. 63

Question ID : 4244291266
Status : Answered
Chosen Option : 2

Q.7 ABC and BDE are two equilateral triangles such that D is the mid-point of BC. If the area of triangle ABC is 136 cm^2 , then the area of triangle BDE is equal to:

- Ans
- 1. 36 cm^2
 - 2. 38 cm^2
 - 3. 24 cm^2
 - 4. 34 cm^2

Question ID : 4244291281
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.8 If $\cos 3\theta = \sin(\theta - 34^\circ)$, then the value of θ as an acute angle is:

- Ans
- 1. 56°
 - 2. 17°
 - 3. 31°
 - 4. 34°

Question ID : 4244291285
Status : Answered
Chosen Option : 3

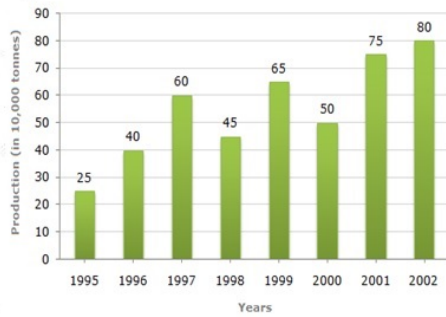
Q.9 Rahul and Mithun travel a distance of 30 km. The sum of their speeds is 70 km/h and the total time taken by both to travel the distance is 2 hours 6 minutes. The difference between their speeds is:

- Ans
- 1. 35 km/h
 - 2. 20 km/h
 - 3. 25 km/h
 - 4. 30 km/h

Question ID : 4244291274
Status : Not Answered
Chosen Option : --

Q.10 Study the given bar chart and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years



What was the approximate percentage increase in the production of fertilizers from 1998 to 1999?

- Ans
- 1. 44.4%
 - 2. 50%
 - 3. 40%
 - 4. 48.4%

Question ID : 4244291288

Status : Answered

Chosen Option : 1

Q.11 If $\sqrt{3} \cos \theta = \sin \theta$, then the value of $\frac{4 \sin^2 \theta - 5 \cos \theta}{3 \cos \theta + 1}$ is:

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

Question ID : 4244291284

Status : Answered

Chosen Option : 2

Q.12 In an isosceles triangle ABC with AB = AC and AD is perpendicular to BC, if AD = 6 cm and the perimeter of $\triangle ABC$ is 36 cm, then the area of $\triangle ABC$ is:

- Ans
- 1. 54 cm^2
 - 2. 64 cm^2
 - 3. 45 cm^2
 - 4. 48 cm^2

Question ID : 4244291282

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.13 An article was sold at a loss of 12%. If it was sold for ₹630 more, then there would have been a gain of 6%. Find the cost price of the article.

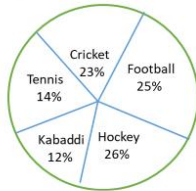
- Ans**
- 1. ₹3,500
 - 2. ₹2,800
 - 3. ₹2,500
 - 4. ₹3,000

Question ID : 4244291270

Status : Answered

Chosen Option : 1

Q.14 The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800.



What is the average number of students enrolled in Hockey and Tennis together?

- Ans**
- 1. 560
 - 2. 580
 - 3. 540
 - 4. 460

Question ID : 4244291286

Status : Answered

Chosen Option : 1

Q.15 If the difference between the compound interest and simple interest on a certain sum of money for three years at 10% p.a. is ₹558, then the sum is:

- Ans**
- 1. ₹18,500
 - 2. ₹15,000
 - 3. ₹16,000
 - 4. ₹18,000

Question ID : 4244291272

Status : Answered

Chosen Option : 4

Q.16 The salaries of Vipin and Dinesh are in the ratio 5 : 8. If the salary of each is increased by ₹4,800, then new ratio becomes 7 : 10. What is Vipin's salary?

- Ans**
- 1. ₹13,000
 - 2. ₹12,000
 - 3. ₹12,500
 - 4. ₹10,000

Question ID : 4244291271

Status : Answered

Chosen Option : 2

Q.17

If $p + \frac{1}{p} = 112$, find $(p - 112)^{15} + \frac{1}{p^{15}}$.

- Ans
- 1. 1
 - 2. 15
 - 3. 10
 - 4. 0

Question ID : 4244291276
Status : Answered
Chosen Option : 4

Q.18 If 4M37094267N is divisible by both 8 and 11, where M and N are single digit integers, then the values of M and N are:

- Ans
- 1. M = 5, N = 6
 - 2. M = 5, N = 4
 - 3. M = 5, N = 2
 - 4. M = 2, N = 5

Question ID : 4244291265
Status : Answered
Chosen Option : 3

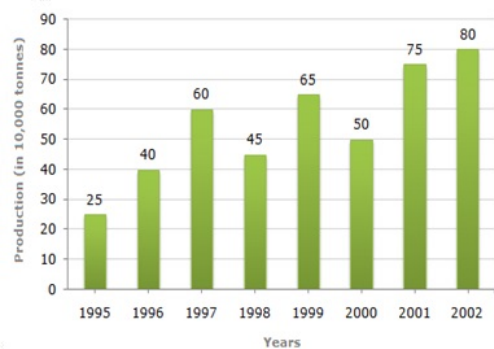
Q.19 The average of nine 2 digit numbers is decreased by 6 when the digits of one of the 2 digit numbers is interchanged. Find the difference between the digits of that number.

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

Question ID : 4244291267
Status : Not Answered
Chosen Option : --

Q.20 Study the given and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years



The average production in 2000 and 2001 was less than the average production of which of the following pairs of years ?

- Ans**
- 1. 2001 and 2002
 - 2. 1997 and 1998
 - 3. 1999 and 2000
 - 4. 1996 and 1997

Question ID : 4244291289

Status : Not Answered

Chosen Option : --

Q.21 The difference of two positive numbers is 1020. If 7.6% of the greater number is 12.4% of the smaller number, then the sum of the two numbers is equal to:

- Ans**
- 1. 3250
 - 2. 4520
 - 3. 3520
 - 4. 4250

Question ID : 4244291269

Status : Not Answered

Chosen Option : --

Q.22 ABC is a right angled triangle, right angled at A. A circle is inscribed in it. The lengths of two sides containing the right angle are 48 cm and 14 cm. The radius of the inscribed circle is:

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

Question ID : 4244291279

Status : Answered

Chosen Option : 3

Q.23 If 3.96 cubic dm of lead is to be drawn in to a cylindrical wire of diameter 0.6 cm, then the length of the wire (in metres), is:

- Ans
- 1. 140 m
 - 2. 120 m
 - 3. 130 m
 - 4. 125 m

Question ID : 4244291275
Status : Not Answered
Chosen Option : --

Q.24 If $x\sin^3\theta + y\cos^3\theta = \sin\theta \cos\theta$ and $x\sin\theta = y\cos\theta$, then the value of $x^2 + y^2$ is:

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

Question ID : 4244291283
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.25 A and B together can complete a piece of work in 15 days. B and C together can do it in 24 days. If A is twice as good a workman as C, then in how many days can B alone complete the work?

- Ans
- 1. 60 days
 - 2. 40 days
 - 3. 52 days
 - 4. 45 days

Question ID : 4244291273
Status : Answered
Chosen Option : 1