Section : **Quantitative Aptitude(Basic Arithmetic Skill)**

Q.1 If $sin\ \theta = \frac{4}{5}$, find the value of $sin\ 3\theta$.

Ans

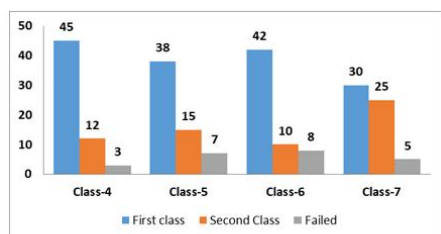✗ 1. $\dfrac{12}{25}$

✔ 2. $\dfrac{44}{125}$

✗ 3. $\dfrac{64}{125}$

✗ 4. $\dfrac{32}{45}$

Question ID : **8161611551**

Status : **Marked For Review**

Chosen Option : **2**

Courtesy : SSC

Q.2 The given chart shows the number of students in Class 4, Class 5, Class 6 and Class 7 who got first class, second class and failed in the final examinations.

Which class has the highest number of students who passed?

Ans ✔ 1. Class 4

✗ 2. Class 7

✗ 3. Class 6

✗ 4. Class 5

Question ID : **8161611553**
Status : **Answered**
Chosen Option : **1**

Q.3 The difference between a number and one-third of that number is 228. What is 20% of that number?

Ans ✗ 1. 72.5

✔ 2. 68.4

✗ 3. 58.9

✗ 4. 61.8

Question ID : **8161611537**
Status : **Marked For Review**
Chosen Option : **2**

Q.4 Find x if $2 \sin^2 x - 1 = 0$.

Ans ✔ 1. $\dfrac{\pi}{4}$

✗ 2. $\dfrac{\pi}{2}$

✗ 3. 0

✗ 4. π

Question ID : **8161611552**
Status : **Answered**
Chosen Option : **1**

Q.5 What is the area of a triangle whose sides measure 5 cm, 6 cm and 7 cm?

Ans

✗ 1. 16.4545 cm^2

✔ 2. 14.6969 cm^2

✗ 3. 10.9797 cm^2

✗ 4. 12.8484 cm^2

Question ID : **8161611544**	
Status : **Marked For Review**	
Chosen Option : **2**	

Q.6 Find one-fifth of three-eighth of one-third of 11760.

Ans

✔ 1. 294

✗ 2. 645

✗ 3. 467

✗ 4. 598

Question ID : **8161611549**	
Status : **Answered**	
Chosen Option : **1**	

Q.7 If $\cot\theta = \frac{80}{39}$, find the value of $\operatorname{cosec}\theta$.

Ans

✔ 1. $\dfrac{89}{39}$

✗ 2. $\dfrac{39}{89}$

✗ 3. $\dfrac{89}{80}$

✗ 4. $\dfrac{39}{80}$

Question ID : **8161611550**	
Status : **Answered**	
Chosen Option : **1**	

Q.8 Smith and Ajit can complete a task in 12 days and 18 days, respectively. If they work together on the task for 4 days, then the fraction of the task that will be left is:

Ans

✓ 1. $\dfrac{4}{9}$

✗ 2. $\dfrac{1}{9}$

✗ 3. $\dfrac{2}{9}$

✗ 4. $\dfrac{5}{9}$

Question ID : **8161611532**
Status : **Answered**
Chosen Option : **1**

Q.9 If the height of an equilateral triangle is 12 cm, then what is the area of the triangle?

Ans

✗ 1. 89.567 cm^2

✓ 2. 83.1384 cm^2

✗ 3. 67.9843 cm^2

✗ 4. 96.897 cm^2

Question ID : **8161611543**
Status : **Answered**
Chosen Option : **2**

Q.10 A product, whose MRP is ₹978, is sold for ₹925 by a wholesale shop owner. What is the percentage of discount given by him?

Ans

✗ 1. 9.2%

✗ 2. 6.5%

✓ 3. 5.4%

✗ 4. 7.8%

Question ID : **8161611536**
Status : **Marked For Review**
Chosen Option : **3**

Q.11 If $x = 1 + \sqrt{2}$, then find the value of $\sqrt{x} + \left(\dfrac{1}{\sqrt{x}}\right)$.

Ans

✗ 1. 2.1014

✓ 2. 2.1973

✗ 3. 1.9996

✗ 4. 1.9876

Question ID : **8161611547**
Status : **Not Answered**
Chosen Option : **--**

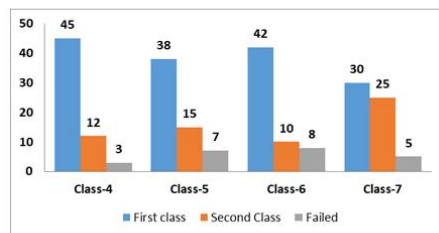**Q.12** Which of the following numbers is divisible by 9?

Ans ✔ 1. 734895

✘ 2. 594327

✘ 3. 346217

✘ 4. 897342

Question ID : **8161611548**
Status : **Answered**
Chosen Option : **1**

Q.13 The given chart shows the number of students in Class 4, Class 5, Class 6 and Class 7 who got first class, second class and failed in the final examinations.

What is the pass percentage of Class 6?

Ans ✔ 1. 86.66%

✘ 2. 90.12%

✘ 3. 87.83%

✘ 4. 89.96%

Question ID : **8161611555**
Status : **Answered**
Chosen Option : **1**

Q.14 Two cars start from the same place at the same time at right angles to each other. Their speeds are 54 km/hr and 72 km/hr, respectively. After 20 seconds the distance between them will be:

Ans ✘ 1. 720 m

✘ 2. 480 m

✔ 3. 500 m

✘ 4. 540 m

Question ID : **8161611533**
Status : **Answered**
Chosen Option : **3**

Q.15 If the difference between two numbers is 6 and the difference between their squares is 60, what is the sum of their cubes?

Ans

✗ 1. 894

✗ 2. 945

✗ 3. 678

✔ 4. 520

Question ID : **8161611546**

Status : **Answered**

Chosen Option : **4**

Q.16 What is the equation of a circle with centre of origin and radius is 6 cm?

Ans

✗ 1. $x^2 + y^2 - y = 36$

✗ 2. $x^2 + y^2 - x - y = 36$

✔ 3. $x^2 + y^2 - 36 = 0$

✗ 4. $x^2 + y^2 - x = 36$

Question ID : **8161611541**

Status : **Answered**

Chosen Option : **3**

Q.17 The ratio of tables and chairs in a room is 7 : 9. If there are 560 tables and chairs in the room, then what is the number of chairs?

Ans

✗ 1. 397

✗ 2. 489

✔ 3. 315

✗ 4. 463

Question ID : **8161611539**

Status : **Marked For Review**

Chosen Option : **3**

Q.18 A chord of length 24 cm is at a distance of 5 cm from the centre of a circle. What is its area?

Ans

✗ 1. 120 cm^2

✗ 2. 480.67 cm^2

✔ 3. 531.14 cm^2

✗ 4. 389.28 cm^2

Question ID : **8161611542**

Status : **Answered**

Chosen Option : **3**

Q.19 The length and breadth of a rectangle are in the ratio 3 : 2. If its perimeter is 730 cm, what is the area of the rectangle?
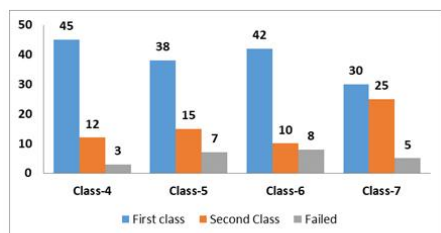
Ans

✔ 1. $31,974 \text{ cm}^2$

✘ 2. $20,567 \text{ cm}^2$

✘ 3. $28,976 \text{ cm}^2$

✘ 4. $24,452 \text{ cm}^2$

Question ID : **8161611534**

Status : **Marked For Review**

Chosen Option : **1**

Q.20 The given chart shows the number of students in Class 4, Class 5, Class 6 and Class 7 who got first class, second class and failed in the final examinations.
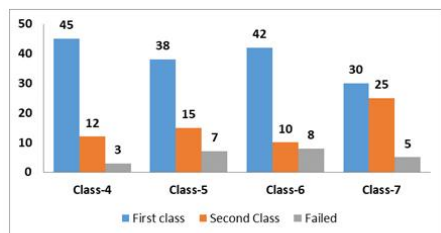

What is the pass percentage of Class 4?

Ans

✘ 1. 94.66%

✘ 2. 91.23%

✘ 3. 90.45%

✔ 4. 95%

Question ID : **8161611556**

Status : **Answered**

Chosen Option : **4**

Q.21 The given chart shows the number of students in Class 4, Class 5, Class 6 and Class 7 who got first class, second class and failed in the final examinations.

Which class has the least number of students who passed?

Ans

✘ 1. Class 4

✔ 2. Class 6

✘ 3. Class 5

✘ 4. Class 7

Question ID : **8161611554**

Status : **Answered**

Chosen Option : **1**

Q.22 The sum of two numbers is 59 and their product is 840. Find the sum of their squares.

Ans ✗ 1. 2961

✔ 2. 1801

✗ 3. 1875

✗ 4. 1754

Question ID : **8161611545**
Status : **Answered**
Chosen Option : **2**

Q.23 Ram deposited an amount of ₹8,000 in a bank's savings account with interest 6.5% compounded monthly. What amount will he get at the end of 18 months?

Ans ✔ 1. ₹8816.97

✗ 2. ₹8788.98

✗ 3. ₹8907.56

✗ 4. ₹8790.54

Question ID : **8161611540**
Status : **Not Answered**
Chosen Option : **--**

Q.24 The average age of 16 students in a college is 20. Out of them, the average age of 5 students is 20 and the average age of the other 10 students is 20.4. Find the age of the 16th college student.

Ans ✗ 1. 24

✔ 2. 16

✗ 3. 20

✗ 4. 22

Question ID : **8161611535**
Status : **Answered**
Chosen Option : **2**

Q.25 By selling an article for ₹600, a shopkeeper makes a profit of 20%. At what price should he sell the article to incur a loss of 20%?

Ans ✗ 1. ₹500

✔ 2. ₹400

✗ 3. ₹300

✗ 4. ₹600

Question ID : **8161611538**
Status : **Answered**
Chosen Option : **2**