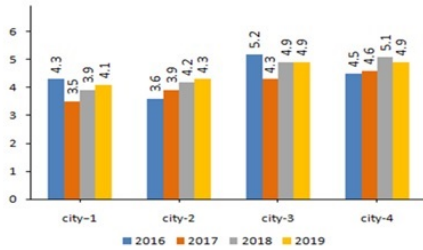Section : **Quantitative Aptitude(Basic Arithmetic Skill)**

Q.1 Find the value of x in $\sqrt[3]{15625} - \sqrt{x} = 4$.

Ans ✗ 1. 343

✓ 2. 441

✗ 3. 625

✗ 4. 81

Question ID : **8161612805**
Status : **Answered**
Chosen Option : **2**

Q.2 The following graph shows the sales of cars (in thousands) in four cities in 4 years. Study the graph and answer the question.

	2016	2017	2018	2019
City-1	4.3	3.5	3.9	4.1
city-2	3.6	3.9	4.2	4.3
city-3	5.2	4.3	4.9	4.9
city-4	4.5	4.6	5.1	4.9

In 2019, what is the average number of sales among all four cities?

Ans
✗ 1. 4178
✗ 2. 3980
✗ 3. 4280
✔ 4. 4550

Question ID : **8161612811**
Status : **Answered**
Chosen Option : **4**

Q.3 An athlete crosses a distance of 900 m in 10 minutes. What is his speed in km per hour?

Ans
✔ 1. 5.4 km/h
✗ 2. 6.9 km/h
✗ 3. 3.6 km/h
✗ 4. 4.8 km/h

Question ID : **8161612789**
Status : **Answered**
Chosen Option : **1**

Q.4 The largest five-digit number that is exactly divisible by 81 is:

Ans
✔ 1. 99954
✗ 2. 99876
✗ 3. 99989
✗ 4. 99991

Question ID : **8161612804**
Status : **Answered**
Chosen Option : **1**

Q.5 The average of 5 consecutive odd numbers is 75. By adding which number, will the average become 76?

Ans

✗ 1. 77

✗ 2. 79

✔ 3. 81

✗ 4. 76

Question ID : **8161612791**
Status : **Answered**
Chosen Option : **3**

Q.6 Two numbers are respectively 25% and 65% more than a third number. The ratio of the two numbers is:

Ans

✗ 1. 16 : 17

✗ 2. 25 : 42

✔ 3. 25 : 33

✗ 4. 16 : 19

Question ID : **8161612795**
Status : **Answered**
Chosen Option : **3**

Q.7 If in any triangle, the angles are in the ratio of 1 : 2 : 1, then what will be the ratio of its sides?

Ans

✗ 1. 2 : 1 : 2

✗ 2. 1 : 2 : 3

✔ 3. $1 : \sqrt{2} : 1$

✗ 4. 1 : 2 : 1

Question ID : **8161612799**
Status : **Answered**
Chosen Option : **3**

Q.8 An article was marked at ₹x and sold at a discount of $(x - 40)\%$. If the customer paid ₹$(x - 32)$, then find the marked price of the article.

Ans

✗ 1. ₹60

✗ 2. ₹50

✗ 3. ₹75

✔ 4. ₹80

Question ID : **8161612792**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.9 If $sinx + cosecx = 2$, then $sin^{17}x + cosec^{18}x$ is equal to:

Ans
✗ 1. 0
✗ 2. 1
✔ 3. 2
✗ 4. 4

Question ID : **8161612807**
Status : **Answered**
Chosen Option : **3**

Q.10 Find the simple interest on ₹74,000 at $18\frac{2}{3}$ % per annum for a period of 8 months?

Ans
✗ 1. ₹9,486.32
✗ 2. ₹8,956.74
✔ 3. ₹9,208.88
✗ 4. ₹8,458.96

Question ID : **8161612796**
Status : **Answered**
Chosen Option : **3**

Q.11 Two parallel chords are drawn in a circle of diameter 20 cm. The length of one chord is 16 cm and the distance between the two chords is 12 cm. The length of the other chord is:

Ans
✗ 1. 20 cm
✗ 2. 18 cm
✔ 3. 16 cm
✗ 4. 12 cm

Question ID : **8161612798**
Status : **Not Answered**
Chosen Option : **--**

Q.12 If $x + \frac{1}{x} = 8$, then find the value of $\frac{5x}{x^2+1-6x}$.

Ans
✗ 1. 6
✔ 2. 2.5
✗ 3. 5
✗ 4. 6.5

Question ID : **8161612803**
Status : **Answered**
Chosen Option : **2**

Q.13 If $x = 255, y = 256, z = 257$, then find the value of $x^3 + y^3 + z^3 - 3xyz$.

Ans
✗ 1. 1378
✗ 2. 1984
✗ 3. 1876
✔ 4. 2304

Question ID : **8161612802**
Status : **Answered**
Chosen Option : **4**

Q.14 Find x if $Cos x = -\frac{1}{2}$.

Ans
✗ 1. $\dfrac{3\pi}{2}$

✗ 2. $\dfrac{4\pi}{3}$

✗ 3. $\dfrac{5\pi}{2}$

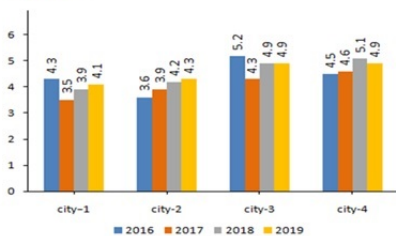✔ 4. $\dfrac{2\pi}{3}$

Question ID : **8161612808**
Status : **Not Answered**
Chosen Option : **--**

Q.15 The perimeter and length of a rectangle are in the ratio of 8 : 1, and the area of the rectangle is 1323 cm². Find the length of the rectangle.

Ans
✗ 1. 25 cm
✔ 2. 21 cm
✗ 3. 22 cm
✗ 4. 23 cm

Question ID : **8161612790**
Status : **Not Answered**
Chosen Option : **--**

Q.16 The following graph shows the sales of cars (in thousands) in four cities in 4 years. Study the graph and answer the question.
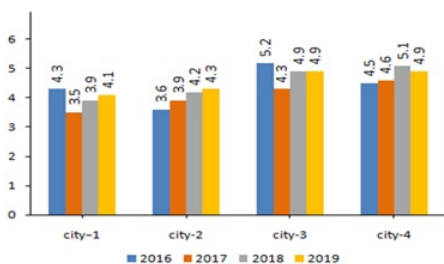

	2016	2017	2018	2019
City-1	4.3	3.5	3.9	4.1
city-2	3.6	3.9	4.2	4.3
city-3	5.2	4.3	4.9	4.9
city-4	4.5	4.6	5.1	4.9

In which year, the sales are highest?

Ans

✗ 1. 2017

✗ 2. 2016

✔ 3. 2019

✗ 4. 2018

Question ID : **8161612810**

Status : **Answered**

Chosen Option : **3**

Q.17 The following graph shows the sales of cars (in thousands) in four cities in 4 years. Study the graph and answer the question.
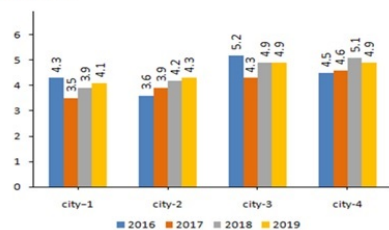

	2016	2017	2018	2019
City-1	4.3	3.5	3.9	4.1
city-2	3.6	3.9	4.2	4.3
city-3	5.2	4.3	4.9	4.9
city-4	4.5	4.6	5.1	4.9

Which city has the highest percentage of sales, and in which year?

Ans

✔ 1. City-3; 2016

✗ 2. City-1; 2019

✗ 3. City-4; 2017

✗ 4. City-2; 2018

Question ID : **8161612812**

Status : **Answered**

Chosen Option : **1**

Q.18 The following graph shows the sales of cars (in thousands) in four cities in 4 years. Study the graph and answer the question.

	2016	2017	2018	2019
City-1	4.3	3.5	3.9	4.1
city-2	3.6	3.9	4.2	4.3
city-3	5.2	4.3	4.9	4.9
city-4	4.5	4.6	5.1	4.9

Which city has the highest sales?

Ans

✔ 1. City-3

✘ 2. City-1

✘ 3. City-4

✘ 4. City-2

Question ID : **8161612809**
Status : **Answered**
Chosen Option : **1**

Q.19 If $sin\,\theta - cos\,\theta = \frac{7}{17}$, then find the value of $sin\,\theta + cos\,\theta$.

Ans

✘ 1. $\frac{8}{13}$

✔ 2. $\frac{23}{17}$

✘ 3. $\frac{23}{13}$

✘ 4. $\frac{8}{17}$

Question ID : **8161612806**
Status : **Marked For Review**
Chosen Option : **3**

Q.20 A man buys an article for ₹3,200 and sells it at a loss of 12%. What is the selling price of the article?

Ans

✘ 1. ₹3,012

✔ 2. ₹2,816

✘ 3. ₹2,856

✘ 4. ₹3,428

Question ID : **8161612794**
Status : **Answered**
Chosen Option : **2**

Q.21 In a circle, PQ and RS are two diameters that are perpendicular to each other. Find the length of the chord PR.

Ans

✗ 1. $\dfrac{PQ}{2}$

✗ 2. $\sqrt{2}\ PQ$

✗ 3. $2\ PQ$

✔ 4. $\dfrac{PQ}{\sqrt{2}}$

> Question ID : **8161612797**
> Status : **Answered**
> Chosen Option : **2**

Q.22 Ramu works 4 times as fast as Somu. If Somu can complete a work in 20 days independently, then the number of days in which Ramu and Somu together can complete the work is:

Ans

✔ 1. 4 days

✗ 2. 5 days

✗ 3. 3 days

✗ 4. 6 days

> Question ID : **8161612788**
> Status : **Answered**
> Chosen Option : **1**

Q.23 Sachin scored 120 runs, which included 6 boundaries and 4 sixes. What percentage of his total score did he make by running between the wickets?

Ans

✗ 1. 45%

✗ 2. $46\dfrac{4}{9}\%$

✔ 3. 60%

✗ 4. $33\dfrac{1}{3}\%$

> Question ID : **8161612793**
> Status : **Answered**
> Chosen Option : **3**

Q.24 If $a + b = 27$ and $a^3 + b^3 = 5427$, then find ab.

Ans

✗ 1. 143

✗ 2. 135

✔ 3. 176

✗ 4. 149

> Question ID : **8161612801**
> Status : **Not Answered**
> Chosen Option : **--**

Q.25 Find the area of an equilateral triangle whose sides are 12 cm.

Ans

✗ 1. $29\sqrt{5}$

✗ 2. $45\sqrt{2}$

✗ 3. 38

✔ 4. $36\sqrt{3}$

Question ID : **8161612800**
Status : **Answered**
Chosen Option : **4**