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

**Q.1**  The length of a rectangular plot is five times of its breadth. If the area of the rectangular plot is 2000 m², then what is the breadth of the rectangular plot?

**Ans**  ✔ 1.  20 m

✘ 2.  30 m

✘ 3.  40 m

✘ 4.  10 m

Question ID : **8161611646**
Status : **Answered**
Chosen Option : **1**

**Q.2**  If $x^3 + y^3 = 16$ and $x + y = 4$, then find the value of $x^4 + y^4$.

**Ans**  ✔ 1.  32

✘ 2.  36

✘ 3.  26

✘ 4.  28

Question ID : **8161611658**
Status : **Answered**
Chosen Option : **1**

**Q.3** Two numbers are respectively 25% and 60% more than a third number. The ratio of the two numbers is:

**Ans**

✗ 1. $20 : 35$

✗ 2. $20 : 30$

✗ 3. $21 : 31$

✔ 4. $25 : 32$

Question ID : **8161611651**
Status : **Answered**
Chosen Option : **4**

**Q.4** The value of $1 + 3 + 5 + 7 + \ldots\ldots\ldots\ldots (2n - 1)$ is:

**Ans**

✗ 1. $\dfrac{n(n + 1)}{2}$

✗ 2. $\dfrac{n}{2}$

✗ 3. $(2n - 1) \times (2n - 1)$

✔ 4. $n \times n$

Question ID : **8161611661**
Status : **Answered**
Chosen Option : **4**

**Q.5** The shadow of a tree is $\dfrac{1}{\sqrt{3}}$ times the length of the tree. Find the angle of elevation.

**Ans**

✗ 1. $45°$

✗ 2. $30°$

✔ 3. $60°$

✗ 4. $90°$

Question ID : **8161611663**
Status : **Answered**
Chosen Option : **3**

**Q.6** If $sin\theta = 0.96$, then find $cot\theta$ .

**Ans**

✗ 1. $0.4876$

✔ 2. $0.2916$

✗ 3. $0.3456$

✗ 4. $0.4563$

Question ID : **8161611662**
Status : **Answered**
Chosen Option : **2**

**Q.7** A single discount equivalent to the discount series of 25%, 15% and 10% is:

Ans   ✗ 1. 25%

     ✗ 2. 30%

     ✗ 3. 40.2%

     ✔ 4. 42.6%

> Question ID : **8161611648**
> Status : **Answered**
> Chosen Option : **4**

**Q.8** If $2(a^2 + b^2) = (a + b)^2$ then,

Ans   ✗ 1. $b = 2a$

     ✗ 2. $a = -b$

     ✗ 3. $a = 2b$

     ✔ 4. $a = b$

> Question ID : **8161611657**
> Status : **Answered**
> Chosen Option : **4**

**Q.9** The perimeter of an isosceles triangle is 90 cm. If the base is 26 cm, then find the length of the equal sides.

Ans   ✔ 1. 32 cm

     ✗ 2. 30 cm

     ✗ 3. 40 cm

     ✗ 4. 42 cm

> Question ID : **8161611655**
> Status : **Answered**
> Chosen Option : **1**

**Q.10** Two small circular grounds of diameters 42 m and 26 m are to be replaced by a bigger circular ground. What would be the radius of the new ground if the new ground has the same area as the two small grounds?

Ans   ✗ 1. 23 m

     ✗ 2. 25 m

     ✗ 3. 25.01 m

     ✔ 4. 24.69 m

> Question ID : **8161611654**
> Status : **Answered**
> Chosen Option : **4**

**Q.11** Two circles with the same centre P have radii 7.5 cm and 4.4 cm. Through a point A of the larger circle, a tangent is drawn to the smaller circle touching it at B. Find AC (Approximate in cm).

**Ans**
✗ 1. 14.27 cm

✗ 2. 14 cm

✔ 3. 12.14 cm

✗ 4. 13 cm

Question ID : **8161611653**
Status : **Answered**
Chosen Option : **3**

**Q.12** A tradesman marks his products 35% above the cost price and allows his customers 15% reduction on their bills. What percentage of profit does he make?

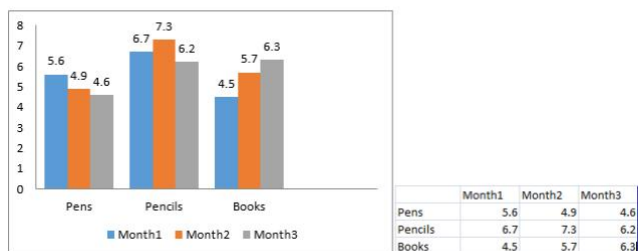**Ans**
✔ 1. 14.75

✗ 2. 14.10

✗ 3. 14.25

✗ 4. 14

Question ID : **8161611650**
Status : **Answered**
Chosen Option : **1**

**Q.13** Find the value of $x$ , if $21^{\sqrt{x}} + 20^{\sqrt{x}} = 29^{\sqrt{x}}$.

**Ans**
✗ 1. 2

✗ 2. 3

✔ 3. 4

✗ 4. 0

Question ID : **8161611659**
Status : **Answered**
Chosen Option : **3**

**Q.14** The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chart.



| | Month1 | Month2 | Month3 |
|---|---|---|---|
| Pens | 5.6 | 4.9 | 4.6 |
| Pencils | 6.7 | 7.3 | 6.2 |
| Books | 4.5 | 5.7 | 6.3 |

Which month has the highest sales?

**Ans**

✗ 1. Month 1

✗ 2. Month 1 and Month 3

✔ 3. Month 2

✗ 4. Month 3

Question ID : **8161611666**

Status : **Answered**

Chosen Option : **3**

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**Q.15** A train covers a distance in 30 min if it runs at a speed of 54 km/h on an average. The speed at which the train must run to reduce the time of the journey to 20 min is:

**Ans**

✔ 1. 81 km/h

✗ 2. 60 km/h

✗ 3. none of these

✗ 4. 75 km/h

Question ID : **8161611645**

Status : **Answered**

Chosen Option : **1**

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**Q.16** In an isosceles right-angled triangle, the perimeter is 30 m. Find its area (Approximate.)

**Ans**

✗ 1. $40 \text{ m}^2$

✗ 2. $39.60 \text{ m}^2$

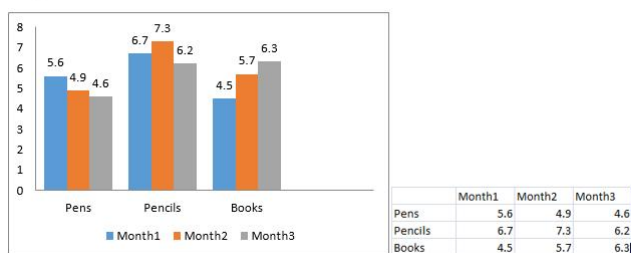✗ 3. $37.86 \text{ m}^2$

✔ 4. $38.63 \text{ m}^2$

Question ID : **8161611656**

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

Chosen Option : **--**

**Q.17** The average salary of a person for the months of February, March, April and May is ₹12,000, and that for the months March, April, May and June is ₹3,000. If his salary for the month of June is ₹8,000, then what is his salary for the month of February?

Ans

✗ 1. ₹4,500

✗ 2. ₹5,000

✗ 3. ₹5,500

✔ 4. ₹4,000

| | |
|---|---|
| Question ID : | **8161611647** |
| Status : | **Not Attempted and Marked For Review** |
| Chosen Option : | **--** |

**Q.18** The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chart.



| | Month1 | Month2 | Month3 |
|---|---|---|---|
| Pens | 5.6 | 4.9 | 4.6 |
| Pencils | 6.7 | 7.3 | 6.2 |
| Books | 4.5 | 5.7 | 6.3 |

What is the average number of pens sold in the 3 months?

Ans

✗ 1. 4935

✗ 2. 3987

✗ 3. 5432

✔ 4. 5033

| | |
|---|---|
| Question ID : | **8161611667** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.19** P can do a work in 10 days and Q can do the same work in 15 days. If they work on it together for 3 days, then the fraction of the work that is left is:

Ans

✗ 1. $\dfrac{4}{3}$

✗ 2. $\dfrac{1}{3}$

✔ 3. $\dfrac{1}{2}$

✗ 4. $\dfrac{2}{3}$

| | |
|---|---|
| Question ID : | **8161611644** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.20** A person borrows ₹7,000 for 3 years at 5% p.a. simple interest. He immediately lends it to another person at $6\frac{1}{3}$ % p.a for 3 years. Find his gain in the transaction per year.

Ans ✔ 1. ₹93.33

✘ 2. ₹95.33

✘ 3. ₹90

✘ 4. ₹92

Question ID : **8161611652**
Status : **Answered**
Chosen Option : **1**

**Q.21** Which of the following options is divisible by 3?

Ans ✔ 1. 3745932

✘ 2. 6342589

✘ 3. 4539763

✘ 4. 2362735

Question ID : **8161611660**
Status : **Answered**
Chosen Option : **1**

**Q.22** In an election, candidate X got 70% of the overall valid votes. If 20% of the overall votes were declared invalid and the total numbers of votes is 640000, then find the number of valid votes polled in favour of the candidate.

Ans ✘ 1. 358000

✔ 2. 358400

✘ 3. 400000

✘ 4. 450000

Question ID : **8161611649**
Status : **Answered**
Chosen Option : **2**

**Q.23** The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chart.



|  | Month1 | Month2 | Month3 |
|---|---|---|---|
| Pens | 5.6 | 4.9 | 4.6 |
| Pencils | 6.7 | 7.3 | 6.2 |
| Books | 4.5 | 5.7 | 6.3 |

Which product has the highest percentage of sales, and in which month (among all months)?

**Ans**

✘ 1. Pencils; Month 2

✔ 2. Books; Month 3

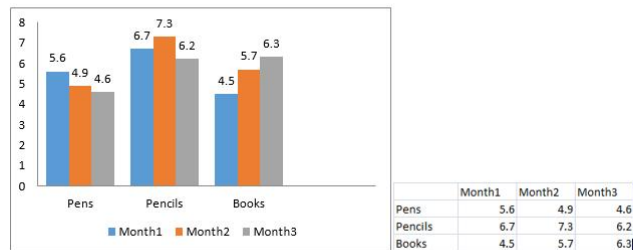✘ 3. Pencils; Month 3

✘ 4. Pens; Month 1

Question ID : **8161611668**
Status : **Answered**
Chosen Option : **1**

**Q.24** If $\cos x = \frac{3}{5}$, then find the value of $\sin x - \sin^3 x.$.

**Ans**

✘ 1. 0.476

✘ 2. 0.389

✘ 3. 0.358

✔ 4. 0.288

Question ID : **8161611664**
Status : **Answered**
Chosen Option : **4**

**Q.25** The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chart.



|  | Month1 | Month2 | Month3 |
|---|---|---|---|
| Pens | 5.6 | 4.9 | 4.6 |
| Pencils | 6.7 | 7.3 | 6.2 |
| Books | 4.5 | 5.7 | 6.3 |

Which product has the highest sales in all 3 months?

**Ans**

✘ 1. Pens

✘ 2. Books

✘ 3. Pens and Books

✔ 4. Pencils

Question ID : **8161611665**
Status : **Answered**
Chosen Option : **4**