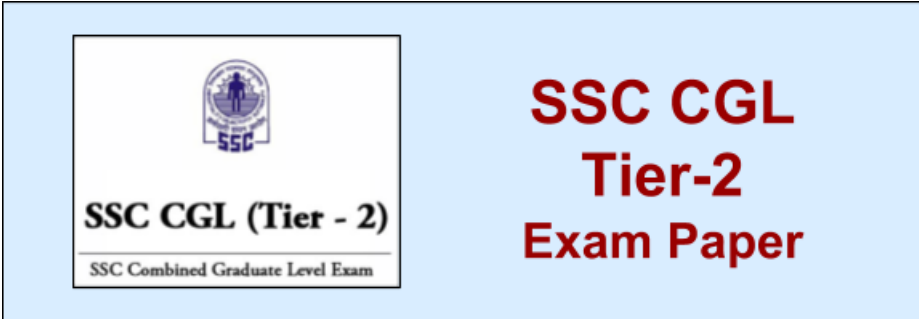


SSC CGL Tier-2 Exam Paper : 2017

"held on 17 February 2018"
Morning Shift (Quantitate Ability)



QID : 1 - What is the unit digit of the sum of first 111 whole numbers?

Options:

- 1) 4
- 2) 6
- 3) 5
- 4) 0

Correct Answer: 5

QID : 2 - How many 100 digit positive number are there?

Options:

- 1) 9×10^{99}
- 2) 9×10^{100}
- 3) 10100
- 4) 11×10^{98}

Correct Answer: 9×10^{99}

QID : 3 -

What is the value of $\frac{5.6 \times 0.36 + 0.42 \times 3.2}{0.8 \times 2.1}$?

$\frac{5.6 \times 0.36 + 0.42 \times 3.2}{0.8 \times 2.1}$ का मान क्या है?

Options:

- 1) 2
- 2) 1
- 3) 3
- 4) 3/2

Correct Answer: 2

QID : 4 -



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What is the value of

$$\frac{(1.2)^3 + (0.8)^3 + (0.7)^3 - 2.016}{(1.35)[(1.2)^2 + (0.8)^2 + (0.7)^2 - 0.96 - 0.84 - 0.56]}?$$

$$\frac{(1.2)^3 + (0.8)^3 + (0.7)^3 - 2.016}{(1.35)[(1.2)^2 + (0.8)^2 + (0.7)^2 - 0.96 - 0.84 - 0.56]}$$

का मान क्या है?

Options:

- 1) 1/4
- 2) 1/2
- 3) 1
- 4) 2

Correct Answer: 2

QID : 5 - What is the unit digit of $(217)_{413} \times (819)_{547} \times (414)_{624} \times (342)_{812}$?

Options:

- 1) 2
- 2) 4
- 3) 6
- 4) 8

Correct Answer: 8

QID : 6 -

What is the value of $S = \frac{1}{1 \times 3 \times 5} + \frac{1}{1 \times 4} + \frac{1}{3 \times 5 \times 7} + \frac{1}{4 \times 7} + \frac{1}{5 \times 7 \times 9} + \frac{1}{7 \times 10} + \dots$ upto 20 terms, then what is the value of S?

$S = \frac{1}{1 \times 3 \times 5} + \frac{1}{1 \times 4} + \frac{1}{3 \times 5 \times 7} + \frac{1}{4 \times 7} + \frac{1}{5 \times 7 \times 9} + \frac{1}{7 \times 10} + \dots$ 20 पदों तक हैं, तो S का मान क्या है?

Options:

- 1) 6179/15275
- 2) 6070/14973
- 3) 7191/15174
- 4) 5183/16423

Correct Answer: 6070/14973

QID : 7 -



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Which of the following is **TRUE**?

- I. $\frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt[4]{29}} > \frac{1}{\sqrt{5}}$
II. $\frac{1}{\sqrt[4]{29}} > \frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt{5}}$
III. $\frac{1}{\sqrt{5}} > \frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt[4]{29}}$
IV. $\frac{1}{\sqrt{5}} > \frac{1}{\sqrt[4]{29}} > \frac{1}{\sqrt[3]{12}}$

निम्नलिखित में से कौन सा सत्य है?

- I. $\frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt[4]{29}} > \frac{1}{\sqrt{5}}$
II. $\frac{1}{\sqrt[4]{29}} > \frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt{5}}$
III. $\frac{1}{\sqrt{5}} > \frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt[4]{29}}$
IV. $\frac{1}{\sqrt{5}} > \frac{1}{\sqrt[4]{29}} > \frac{1}{\sqrt[3]{12}}$

Options:

- 1) Only I
2) Only II
3) Only III
4) Only IV

Correct Answer: Only III

QID : 8 - N is the largest two digit number, which when divided by 3, 4 and 6 leaves the remainder 1, 2 and 4 respectively. What is the remainder when N is divided by 5?

Options:

- 1) 4

2) 2

3) 0

4) 1

Correct Answer: 4

QID : 9 -

Which of the following is **TRUE**?

- I. $\sqrt[3]{11} > \sqrt{7} > \sqrt[4]{45}$
II. $\sqrt{7} > \sqrt[3]{11} > \sqrt[4]{45}$
III. $\sqrt{7} > \sqrt[4]{45} > \sqrt[3]{11}$
IV. $\sqrt[4]{45} > \sqrt{7} > \sqrt[3]{11}$

निम्नलिखित में से कौन सा सत्य है?

- I. $\sqrt[3]{11} > \sqrt{7} > \sqrt[4]{45}$
II. $\sqrt{7} > \sqrt[3]{11} > \sqrt[4]{45}$
III. $\sqrt{7} > \sqrt[4]{45} > \sqrt[3]{11}$
IV. $\sqrt[4]{45} > \sqrt{7} > \sqrt[3]{11}$

Options:

- 1) Only I
2) Only II
3) Only III
4) Only IV

Correct Answer: Only III

QID : 10 - A and B are positive integers. If $A + B + AB = 65$, then what is the difference between A and B ($A, B \leq 15$)?

Options:

- 1) 3
2) 4



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3) 5

4) 6

Correct Answer: 5

QID : 11 - What is the value of $14_3 + 16_3 + 18_3 + \dots + 30_3$?

Options:

1) 134576

2) 120212

3) 115624

4) 111672

Correct Answer: 111672

QID : 12 -

What is the value of

$$\sqrt{\sqrt{4600 + \sqrt{540 + \sqrt{1280 + \sqrt{250 + \sqrt{36}}}}}}$$

$$\sqrt{\sqrt{4600 + \sqrt{540 + \sqrt{1280 + \sqrt{250 + \sqrt{36}}}}}}$$

का मान क्या है?

Options:

1) 69

2) 68

3) 70

4) 72

Correct Answer: 68

QID : 13 - If $x + y + z = 0$, then what is the value of $(3y^2 + x^2 + z^2)/(2y^2 - xz)$?

Options:

1) 2

2) 1

3) 3/2

4) 5/3

Correct Answer: 2

QID : 14 - If $P = 7 + 4\sqrt{3}$ and $PQ = 1$, then what is the value of $1/P^2 + 1/Q^2$?

Options:

1) 196

2) 194

3) 206

4) 182

Correct Answer: 194

QID : 15 - If $a^3 + 3a^2 + 9a = 1$, then what is the value of $a^3 + (3/a)$?

Options:

1) 31

2) 26

3) 28

4) 24

Correct Answer: 28

QID : 16 - x, y and z are real numbers. If $x^3 + y^3 + z^3 = 13, x + y + z = 1$ and $xyz = 1$, then what is the value of $xy + yz + zx$?

Options:

1) - 1

2) 1



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3) 3

4) - 3

Correct Answer: - 3

QID : 17 - If $(a + b)/c = 6/5$ and $(b + c)/a = 9/2$, then what is the value of $(a + c)/b$?

Options:

1) 9/5

2) 11/7

3) 7/11

4) 7/4

Correct Answer: 7/4

QID : 18 - If $x^3 + y^3 + z^3 = 3(1 + xyz)$, $P = y + z - x$, $Q = z + x - y$ and $R = x + y - z$, then what is the value of $P^3 + Q^3 + R^3 - 3PQR$?

Options:

1) 9

2) 8

3) 12

4) 6

Correct Answer: 12

QID : 19 - If $x_1x_2x_3 = 4(4 + x_1 + x_2 + x_3)$, then what is the value of $[1/(2 + x_1)] + [1/(2 + x_2)] + [1/(2 + x_3)]$?

Options:

1) 1

2) 1/2

3) 2

4) 1/3

Correct Answer: 1/2

QID : 20 - If α and β are the roots of equation $x^2 - x + 1 = 0$, then which equation will have roots α^3 and β^3 ?

Options:

1) $x^2 + 2x + 1 = 0$

2) $x^2 - 2x - 1 = 0$

3) $x^2 + 3x - 1 = 0$

4) $x^2 - 3x + 1 = 0$

Correct Answer: $x^2 + 2x + 1 = 0$

QID : 21 - If $3x + 5y + 7z = 49$ and $9x + 8y + 21z = 126$, then what is the value of y ?

Options:

1) 4

2) 2

3) 3

4) 5

Correct Answer: 3

QID : 22 - Cost of 4 pens, 6 note books and 9 files is Rs 305. Cost of 3 pens, 4 notebooks and 2 files is Rs 145. What is the cost (in Rs) of 5 pens, 8 notebooks and 16 files?

Options:

1) 415

2) 465

3) 440

4) Cannot be determined

Correct Answer: 465



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QID : 23 - ABC is a right angled triangle. $\angle BAC = 90^\circ$ and $\angle ACB = 60^\circ$. What is the ratio of the circum radius of the triangle to the side AB?

Options:

- 1) 1 : 2
- 2) 1 : $\sqrt{3}$
- 3) 2 : $\sqrt{3}$
- 4) 2 : 3

Correct Answer: 1 : $\sqrt{3}$

- 1) $4\sqrt{5}$
- 2) $4\sqrt{4}$
- 3) $6\sqrt{3}$
- 4) $4\sqrt{6}$

Correct Answer: $4\sqrt{5}$

QID : 25 - Triangle ABC is similar to triangle PQR and $AB : PQ = 2 : 3$. AD is the median to the side BC in triangle ABC and PS is the median to the side QR in triangle PQR. What is the value of $(BD/QS)^2$?

Options:

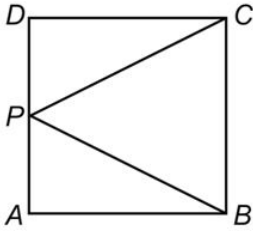
- 1) $3/5$
- 2) $4/9$
- 3) $2/3$
- 4) $4/7$

Correct Answer: $4/9$

QID : 24 -

In the given figure, ABCD is a square whose side is 4 cm. P is a point on the side AD. What is the minimum value (in cm) of $BP + CP$?

दी गई आकृति में, ABCD एक वर्ग है जिसकी भुजा 4 से.मी. है। भुजा AD पर P एक बिन्दु है। $BP + CP$ का न्यूनतम मान (से.मी. में) क्या है?



QID : 26 -

Options:



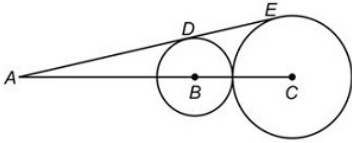
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In the given figure, B and C are the centres of the two circles. ADE is the common tangent to the two circles. If the ratio of the radius of both the circles is $3 : 5$ and $AC = 40$, then what is the value of DE ?

दी गई आकृति में, B तथा C दो वृत्तों के केन्द्र हैं। ADE दोनों वृत्तों की एक उभयनिष्ठ स्पर्श रेखा है। यदि दोनों वृत्तों की त्रिज्याओं का अनुपात $3 : 5$ है तथा $AC = 40$ है, तो DE का मान क्या है?



Options:

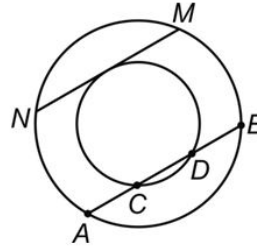
- 1) $3\sqrt{15}$
- 2) $5\sqrt{15}$
- 3) $6\sqrt{15}$
- 4) $4\sqrt{15}$

Correct Answer: $4\sqrt{15}$

QID : 27 -

In the given figure, $AB = 30$ cm and $CD = 24$ cm. What is the value (in cm) of MN ?

दी गई आकृति में, $AB = 30$ से.मी. तथा $CD = 24$ से.मी. हैं। MN का मान (से.मी. में) क्या है?



Options:

- 1) 18
- 2) 9
- 3) 12
- 4) 15

Correct Answer: 18

QID : 28 - AB and AC are the two tangents to a circle whose radius is 6 cm. If $\angle BAC = 60^\circ$, then what is the value (in cm) of $\sqrt{AB^2 + AC^2}$?

Options:

- 1) $6\sqrt{6}$
- 2) $4\sqrt{6}$
- 3) $9\sqrt{3}$
- 4) $8\sqrt{3}$

Correct Answer: $6\sqrt{6}$



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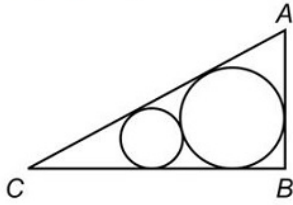
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QID : 29 -

In the given figure, ABC is a right angled triangle. $\angle ABC = 90^\circ$ and $\angle ACB = 60^\circ$. If the radius of the smaller circle is 2 cm, then what is the radius (in cm) of the larger circle?

दी गई आकृति में, ABC एक समकोण त्रिभुज है। $\angle ABC = 90^\circ$ तथा $\angle ACB = 60^\circ$ है। यदि छोटे वृत्त की त्रिज्या 2 से.मी. है, तो बड़े वृत्त की त्रिज्या (से.मी. में) क्या है?



Options:

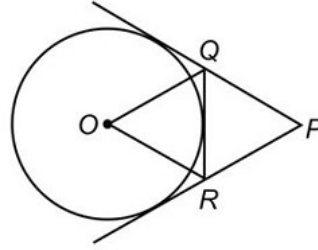
- 1) 4
- 2) 6
- 3) 4.5
- 4) 7.5

Correct Answer: 6

QID : 30 -

In the given figure, O is centre of the circle. Circle has 3 tangents. If $\angle QPR = 45^\circ$, then what is the value (in degrees) of $\angle QOR$?

दी गई आकृति में, O वृत्त का केन्द्र है। वृत्त पर 3 स्पर्श रेखाएँ हैं। यदि $\angle QPR = 45^\circ$ है, तो $\angle QOR$ का मान (डिग्री में) क्या है?



Options:

- 1) 67.5
- 2) 72
- 3) 78.5
- 4) 65

Correct Answer: 67.5

QID : 31 -



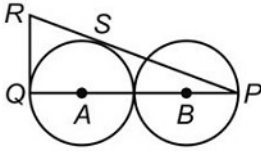
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In the given figure, two identical circles of radius 4 cm touch each other. A and B are the centres of the two circles. If RQ is a tangent to the circle, then what is the length (in cm) of RQ ?

दी गई आकृति में, दो समान वृत्त जिनकी त्रिज्या 4 से.मी. हैं एक दूसरे को स्पर्श कर रहे हैं। दोनों वृत्तों के केन्द्र A तथा B हैं। यदि RQ वृत्त पर एक स्पर्शरेखा है, तो RQ की लम्बाई (से.मी. में) क्या है?



Options:

- 1) $3\sqrt{3}$
- 2) $2\sqrt{6}$
- 3) $4\sqrt{2}$
- 4) $6\sqrt{2}$

Correct Answer: $4\sqrt{2}$

QID : 32 - The radius of two circles is 3 cm and 4 cm. The distance between the centres of the circles is 10 cm. What is the ratio of the length of direct common tangent to the length of the transverse common tangent?

Options:

- 1) $\sqrt{51} : \sqrt{68}$
- 2) $\sqrt{33} : \sqrt{17}$

3) $\sqrt{66} : \sqrt{51}$

4) $\sqrt{28} : \sqrt{17}$

Correct Answer: $\sqrt{33} : \sqrt{17}$

QID : 33 - ABC is a triangle. $AB = 5$ cm, $AC = \sqrt{41}$ cm and $BC = 8$ cm. AD is perpendicular to BC. What is the area (in cm^2) of triangle ABD?

Options:

- 1) 12
- 2) 6
- 3) 10
- 4) 20

Correct Answer: 6

QID : 34 -



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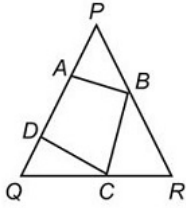
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In the given figure, PQR is a triangle and quadrilateral $ABCD$ is inscribed in it. $QD = 2$ cm, $QC = 5$ cm, $CR = 3$ cm, $BR = 4$ cm, $PB = 6$ cm, $PA = 5$ cm and $AD = 3$ cm. What is the area (in cm^2) of the quadrilateral $ABCD$?

दी गई आकृति में, PQR एक त्रिभुज है तथा चतुर्भुज $ABCD$ उसमें अंकित किया गया है। $QD = 2$ से.मी., $QC = 5$ से.मी., $CR = 3$ से.मी., $BR = 4$ से.मी., $PB = 6$ से.मी., $PA = 5$ से.मी. तथा $AD = 3$ से.मी. हैं। चतुर्भुज $ABCD$ का क्षेत्रफल (से.मी.² में) क्या है?



Options:

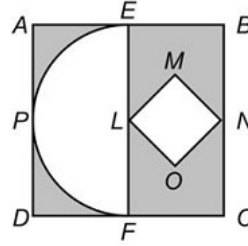
- 1) $(23\sqrt{21})/4$
- 2) $(15\sqrt{21})/4$
- 3) $(17\sqrt{21})/5$
- 4) $(23\sqrt{21})/5$

Correct Answer: $(17\sqrt{21})/5$

QID : 35 -

In the given figure, $ABCD$ is a square of side 14 cm. E and F are mid points of sides AB and DC respectively. EPF is a semicircle whose diameter is EF . $LMNO$ is a square. What is the area (in cm^2) of the shaded region?

दी गई आकृति में, $ABCD$ 14 से.मी. भुजा वाला एक वर्ग है। E तथा F क्रमशः AB तथा DC भुजा के मध्य बिन्दु हैं। EPF , एक अर्धवृत्त है जिसका व्यास EF है। $LMNO$ एक वर्ग है। छायांकित भाग का क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) 108.5
- 2) 94.5
- 3) 70
- 4) 120

Correct Answer: 94.5

QID : 36 -



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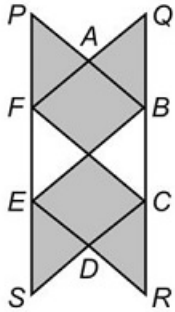
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In the given figure, $ABCDEF$ is a regular hexagon whose side is 6 cm. APF , QAB , DCR and DES are equilateral triangles. What is the area (in cm^2) of the shaded region?

दी गई आकृति में, $ABCDEF$ एक सम षट्भुज है जिसकी भुजा 6 से.मी. है। APF , QAB , DCR तथा DES समबाहु त्रिभुज हैं। आच्छादित भाग का क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) $24\sqrt{3}$
- 2) $18\sqrt{3}$
- 3) $72\sqrt{3}$
- 4) $36\sqrt{3}$

Correct Answer: $72\sqrt{3}$

QID : 37 - Length and breadth of a rectangle are 8 cm and 6 cm respectively. The rectangle is cut on its four vertices such that the resulting figure is a regular octagon. What is the side (in cm) of the octagon?

Options:

- 1) $3(\sqrt{11}) - 7$

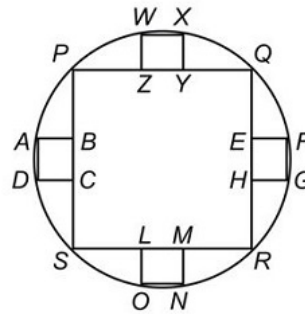
- 2) $5(\sqrt{13}) - 8$
- 3) $4(\sqrt{7}) - 11$
- 4) $6(\sqrt{11}) - 9$

Correct Answer: $3(\sqrt{11}) - 7$

QID : 38 -

In the given figure, radius of a circle is $14\sqrt{2}$ cm. $PQRS$ is a square. $EFGH$, $ABCD$, $WXYZ$ and $LMNO$ are four identical squares. What is the total area (in cm^2) of all the small squares?

दी गई आकृति में, एक वृत्त की त्रिज्या $14\sqrt{2}$ से.मी. है। $PQRS$ एक वर्ग है। $EFGH$, $ABCD$, $WXYZ$ तथा $LMNO$ चार समान वर्ग हैं। सभी छोटे वर्गों का कुल क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) 31.36
- 2) 125.44
- 3) 62.72
- 4) 156.8

Correct Answer: 31.36

QID : 39 -



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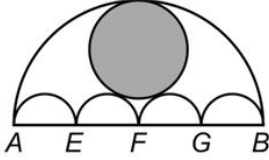
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In the given figure, AB , AE , EF , FG and GB are semicircles. $AB = 56$ cm and $AE = EF = FG = GB$. What is the area (in cm^2) of the shaded region?

दी गई आकृति में, AB , AE , EF , FG तथा GB अर्धवृत्त हैं। $AB = 56$ से.मी. तथा $AE = EF = FG = GB$ हैं। छायांकित भाग का क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) 414.46
- 2) 382.82
- 3) 406.48
- 4) 394.24

Correct Answer: 394.24

QID : 40 - A right prism has a square base with side of base 4 cm and the height of prism is 9 cm. The prism is cut in three parts of equal heights by two planes parallel to its base. What is the ratio of the volume of the top, middle and the bottom part respectively?

Options:

- 1) 1 : 8 : 27
- 2) 1 : 7 : 19
- 3) 1 : 8 : 20
- 4) 1 : 7 : 20

Correct Answer: [No Correct Answer]

QID : 41 - Radius of base of a hollow cone is 8 cm and its height is 15 cm. A sphere of largest radius is put inside the cone. What is the ratio of radius of base of cone to the radius of sphere?

Options:

- 1) 5 : 3
- 2) 4 : 1
- 3) 2 : 1
- 4) 7 : 3

Correct Answer: 5 : 3

QID : 42 - The ratio of curved surface area of a right circular cylinder to the total area of its two bases is 2 : 1. If the total surface area of cylinder is 23100 cm^2 , then what is the volume (in cm^3) of cylinder?

Options:

- 1) 247200
- 2) 269500
- 3) 312500
- 4) 341800

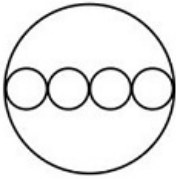
Correct Answer: 269500

QID : 43 -

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A solid cylinder has radius of base 14 cm and height 15 cm. 4 identical cylinders are cut from each base as shown in the given figure. Height of small cylinder is 5 cm. What is the total surface area (in cm^2) of the remaining part?

एक ठोस बेलन के आधार की त्रिज्या 14 से.मी. तथा ऊँचाई 15 से.मी. है। जैसा कि आकृति में दर्शाया गया है कि इसके प्रत्येक आधार से 4 समान बेलन काटे हैं। छोटे बेलन की ऊँचाई 5 से.मी. है। शेष भाग का कुल पृष्ठीय क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) 3740
- 2) 3432
- 3) 3124
- 4) 2816

Correct Answer: 3432

QID : 44 - 10 identical solid spherical balls of radius 3 cm are melted to form a single sphere. In this process 20% of solid is wasted. What is the radius (in cm) of the bigger sphere?

Options:

- 1) 24
- 2) 12

3) 8

4) 6

Correct Answer: 6

QID : 45 - The radius of base of a solid cylinder is 7 cm and its height is 21 cm. It is melted and converted into small bullets. Each bullet is of same size. Each bullet consisted of two parts viz. a cylinder and a hemisphere on one of its base. The total height of bullet is 3.5 cm and radius of base is 2.1 cm. Approximately how many complete bullets can be obtained?

Options:

- 1) 83
- 2) 89
- 3) 74
- 4) 79

Correct Answer: 83

QID : 46 - A cuboid of size 50 cm × 40 cm × 30 cm is cut into 8 identical parts by 3 cuts. What is the total surface area (in cm^2) of all the 8 parts?

Options:

- 1) 11750
- 2) 14100
- 3) 18800
- 4) 23500

Correct Answer: 18800

QID : 47 -

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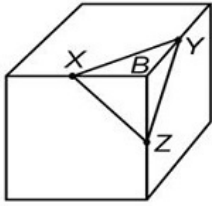
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A right triangular pyramid $XYZB$ is cut from cube as shown in figure. The side of cube is 16 cm. X , Y and Z are mid points of the edges of the cube. What is the total surface area (in cm^2) of the pyramid?

जैसा कि आकृति में दर्शाया गया है कि एक घन से एक समकोणीय त्रिभुजाकार पिरामिड $XYZB$ काटा गया है। घन की भुजा 16 से.मी. है। X , Y तथा Z घन के शीर्षों पर मध्य बिन्दु हैं। पिरामिड का कुल पृष्ठीय क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) $48[(\sqrt{3}) + 1]$
- 2) $24[4 + (\sqrt{3})]$
- 3) $28[6 + (\sqrt{3})]$
- 4) $32[3 + (\sqrt{3})]$

Correct Answer: $32[3 + (\sqrt{3})]$

QID : 48 - What is the value of $[(\sin x + \sin y)(\sin x - \sin y)]/[(\cos x + \cos y)(\cos y - \cos x)]$?

Options:

- 1) 0
- 2) 1
- 3) - 1
- 4) 2

Correct Answer: 1

QID : 49 - What is the value of $[(\tan 5\theta + \tan 3\theta)/4 \cos 4\theta (\tan 5\theta - \tan 3\theta)]$?

Options:

- 1) $\sin 2\theta$
- 2) $\cos 2\theta$
- 3) $\tan 4\theta$
- 4) $\cot 2\theta$

Correct Answer: $\cos 2\theta$

QID : 50 - What is the value of $(4/3) \cot^2(p/6) + 3 \cos^2(150^\circ) - 4 \operatorname{cosec}^2 45^\circ + 8 \sin(p/2)$?

Options:

- 1) $25/4$
- 2) 1
- 3) $-7/2$
- 4) $13/2$

Correct Answer: $25/4$

QID : 51 - What is the value of $\sin(B - C) \cos(A - D) + \sin(A - B) \cos(C - D) + \sin(C - A) \cos(B - D)$?

Options:

- 1) $3/2$
- 2) - 3
- 3) 1
- 4) 0

Correct Answer: 0

QID : 52 -

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What is the value of

$$\frac{\left\{ \left[4 \cos(90 - A) \sin^3(90 + A) \right] - \left[4 \sin(90 + A) \cos^3(90 - A) \right] \right\}}{\cos\left(\frac{180 + 8A}{2}\right)} ?$$

$$\frac{\left\{ \left[4 \cos(90 - A) \sin^3(90 + A) \right] - \left[4 \sin(90 + A) \cos^3(90 - A) \right] \right\}}{\cos\left(\frac{180 + 8A}{2}\right)}$$

का मान क्या है?

Options:

- 1) 1
- 2) - 1
- 3) 0
- 4) 2

Correct Answer: - 1

QID : 53 - What is the value of $\cos [(180 - \theta)/2] \cos [(180 - 9\theta)/2] + \sin [(180 - 3\theta)/2] \sin [(180 - 13\theta)/2]$?

Options:

- 1) $\sin 2\theta \sin 4\theta$
- 2) $\cos 2\theta \cos 6\theta$
- 3) $\sin 2\theta \sin 6\theta$
- 4) $\cos 2\theta \cos 4\theta$

Correct Answer: $\cos 2\theta \cos 6\theta$

QID : 54 - What is the value of $[\tan^2(90 - \theta) - \sin^2(90 - \theta)] \operatorname{cosec}^2(90 - \theta) \cot^2(90 - \theta)$?

Options:

- 1) 0
- 2) 1
- 3) - 1
- 4) 2

Correct Answer: 1

QID : 55 - Two points P and Q are at the distance of x and y (where $y > x$) respectively from the base of a building and on a straight line. If the angles of elevation of the top of the building from points P and Q are complementary, then what is the height of the building?

Options:

- 1) xy
- 2) $\sqrt{(y/x)}$
- 3) $\sqrt{(x/y)}$
- 4) $\sqrt{(xy)}$

Correct Answer: $\sqrt{(xy)}$

QID : 56 - The tops of two poles of height 60 metres and 35 metres are connected by a rope. If the rope makes an angle with the horizontal whose tangent is $5/9$ metres, then what is the distance (in metres) between the two poles?

Options:

- 1) 63
- 2) 30
- 3) 25
- 4) 45



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Correct Answer: 45

QID : 57 - A Navy captain going away from a lighthouse at the speed of $4[(\sqrt{3}) - 1]$ m/s. He observes that it takes him 1 minute to change the angle of elevation of the top of the lighthouse from 60° to 45° . What is the height (in metres) of the lighthouse?

Options:

- 1) $240\sqrt{3}$
- 2) $480[(\sqrt{3}) - 1]$
- 3) $360\sqrt{3}$
- 4) $280\sqrt{2}$

Correct Answer: $240\sqrt{3}$

QID : 58 -

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 1200000.

नीचे दी गई तालिका में विभिन्न परीक्षा केन्द्रों में परीक्षा का नामांकन भरने वाले अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाया गया है। यह तालिका प्रत्येक परीक्षा केन्द्र के ऑनलाइन अभ्यर्थियों तथा अनुपस्थित अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाती है। अभ्यर्थियों की कुल संख्या 1200000 है।

Exam Centre / परीक्षा केन्द्र	Total applicants / कुल अभ्यर्थी	Online applicants / ऑनलाइन अभ्यर्थी	Absent applicants / अनुपस्थित अभ्यर्थी
F	15%	30%	36%
G	25%	44%	25%
H	20%	52%	32%
J	24%	46%	18%
K	16%	38%	20%

If A equals to 15% of total applicants who are present at exam centre F and B equals to present applicants at exam centre K, then A is what percent of B?

Options:

- 1) 18.18
- 2) 11.25
- 3) 13.33
- 4) 14.28

Correct Answer: 11.25

QID : 59 -



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The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 1200000.

नीचे दी गई तालिका में विभिन्न परीक्षा केन्द्रों में परीक्षा का नामांकन भरने वाले अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाया गया है। यह तालिका प्रत्येक परीक्षा केन्द्र के ऑनलाइन अभ्यर्थियों तथा अनुपस्थित अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाती है। अभ्यर्थियों की कुल संख्या 1200000 है।

Exam Centre / परीक्षा केन्द्र	Total applicants / कुल अभ्यर्थी	Online applicants / ऑनलाइन अभ्यर्थी	Absent applicants / अनुपस्थित अभ्यर्थी
F	15%	30%	36%
G	25%	44%	25%
H	20%	52%	32%
J	24%	46%	18%
K	16%	38%	20%

Total number of offline applicants from exam centre H, K and F are how much less than the total number of present applicants from exam centre G and J?

Options:

- 1) 111420
- 2) 100920
- 3) 127370
- 4) 109990

Correct Answer: 100920

QID : 60 -

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 1200000.

नीचे दी गई तालिका में विभिन्न परीक्षा केन्द्रों में परीक्षा का नामांकन भरने वाले अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाया गया है। यह तालिका प्रत्येक परीक्षा केन्द्र के ऑनलाइन अभ्यर्थियों तथा अनुपस्थित अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाती है। अभ्यर्थियों की कुल संख्या 1200000 है।

Exam Centre / परीक्षा केन्द्र	Total applicants / कुल अभ्यर्थी	Online applicants / ऑनलाइन अभ्यर्थी	Absent applicants / अनुपस्थित अभ्यर्थी
F	15%	30%	36%
G	25%	44%	25%
H	20%	52%	32%
J	24%	46%	18%
K	16%	38%	20%

What are the total number of offline applicants from the exam centre F, H, J and G?

Options:

- 1) 393720
- 2) 963000
- 3) 564720
- 4) 428540

Correct Answer: 564720

QID : 61 -



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The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 1200000.

नीचे दी गई तालिका में विभिन्न परीक्षा केन्द्रों में परीक्षा का नामांकन भरने वाले अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाया गया है। यह तालिका प्रत्येक परीक्षा केन्द्र के ऑनलाइन अभ्यर्थियों तथा अनुपस्थित अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाती है। अभ्यर्थियों की कुल संख्या 1200000 है।

Exam Centre / परीक्षा केन्द्र	Total applicants / कुल अभ्यर्थी	Online applicants / ऑनलाइन अभ्यर्थी	Absent applicants / अनुपस्थित अभ्यर्थी
F	15%	30%	36%
G	25%	44%	25%
H	20%	52%	32%
J	24%	46%	18%
K	16%	38%	20%

What is the ratio of total number of present applicants from exam centre K to total number of offline applicants from exam centre J?

Options:

- 1) 40 : 41
- 2) 80 : 81
- 3) 10 : 9
- 4) 7 : 11

Correct Answer: 80 : 81

QID : 62 -

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 1200000.

नीचे दी गई तालिका में विभिन्न परीक्षा केन्द्रों में परीक्षा का नामांकन भरने वाले अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाया गया है। यह तालिका प्रत्येक परीक्षा केन्द्र के ऑनलाइन अभ्यर्थियों तथा अनुपस्थित अभ्यर्थियों की संख्या को कुल अभ्यर्थियों की संख्या के प्रतिशत के रूप में दर्शाती है। अभ्यर्थियों की कुल संख्या 1200000 है।

Exam Centre / परीक्षा केन्द्र	Total applicants / कुल अभ्यर्थी	Online applicants / ऑनलाइन अभ्यर्थी	Absent applicants / अनुपस्थित अभ्यर्थी
F	15%	30%	36%
G	25%	44%	25%
H	20%	52%	32%
J	24%	46%	18%
K	16%	38%	20%

What are the total number of present applicants from exam centre H and G together?

Options:

- 1) 238200
- 2) 151800
- 3) 388200
- 4) 442650

Correct Answer: 388200

QID : 63 - Solution A contains 10% acid and solution B contains 30% acid. In what ratio should solution A be mixed with Solution B to obtain a mixture with 25% acid?

Options:

- 1) 1 : 2



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- 2) 3 : 1
3) 1 : 3
4) 2 : 1

Correct Answer: 1 : 3

QID : 64 - In what ratio should coffee powder costing Rs 2500/kg be mixed with coffee powder costing Rs 1500/kg so that the cost of the mixture is Rs 2250/kg?

Options:

- 1) 1 : 4
2) 4 : 1
3) 3 : 1
4) 1 : 3

Correct Answer: 3 : 1

QID : 65 - A and B started a partnership business investing in the ratio of 3 : 8. C joined them after 4 months with an amount equal to $\frac{3}{4}$ th of B. What was their profit (in Rs) at the end of the year if C got Rs 24,000 as his share?

Options:

- 1) 120000
2) 150000
3) 90000
4) 180000

Correct Answer: 90000

QID : 66 - A and B invest in a business in the ratio 4 : 5. After 10 months B leaves the business after withdrawing his investment. In the first year the business made a profit of Rs 49,000. What is B's share (in Rs) of this profit?

Options:

- 1) 25000
2) 20000
3) 18000
4) 22000

Correct Answer: 25000

QID : 67 - Working together A and B can do a job in 40 days, B and C in 36 days and all three together in 24 days. In how many days can B alone do the job?

Options:

- 1) 60
2) 90
3) 72
4) 120

Correct Answer: 90

QID : 68 - A, B and C can do a job working alone in 50, 75 and 20 days respectively. They all work together for 4 days, then C quits. How many days will A and B take to finish the rest of the job?

Options:

- 1) 20
2) 30
3) 18
4) 24

Correct Answer: 20

QID : 69 - A can do 50% of the job in 16 days, B can do $\frac{1}{4}$ th of the job in 24 days. In how many days can they do $\frac{3}{4}$ th of the job working together?

Options:



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- 1) 24
- 2) 9
- 3) 21
- 4) 18

Correct Answer: 18

QID : 70 - A and B can together complete a task in 18 hours. After 6 hours A leaves. B takes 36 hours to finish rest of the task. How many hours would A have taken to do the task if he worked alone?

Options:

- 1) 54
- 2) 45
- 3) 21
- 4) 27

Correct Answer: 27

QID : 71 - 1 packet of biscuits costs Rs 16 but a pack of 4 of the same packet of biscuits costs Rs 56. What is the effective discount (in %) on the pack?

Options:

- 1) 8
- 2) 10
- 3) 7.5
- 4) 12.5

Correct Answer: 12.5

QID : 72 - The cost price of an article is Rs x. It is marked up by 200%. It is sold at Rs 540 after giving 25% discount. What is the value of x (in Rs)?

Options:

- 1) 360

- 2) 250
- 3) 300
- 4) 240

Correct Answer: 240

QID : 73 - A Rs 750 tin of cheese is offered at 8% discount and a Rs 1,250 tin of butter at 20% discount. If we buy 5 tins of cheese and 3 tins of butter, what is the effective discount we get (in %)?

Options:

- 1) 12
- 2) 15
- 3) 14
- 4) 16

Correct Answer: 14

QID : 74 - The selling price of an article is Rs 816 if the discount on it is 15%. What would be the selling price of the article (in Rs) if the discount on it is 25%?

Options:

- 1) 750
- 2) 720
- 3) 800
- 4) 700

Correct Answer: 720

QID : 75 - The entry ticket at a fun park was increased in the ratio 7 : 9, due to which footfalls fell in the ratio 13 : 11. What is the new daily collection (in Rs), if the daily collection before the price hike was Rs 2,27,500?

Options:

- 1) 237500



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- 2) 247500
- 3) 232500
- 4) 242500

Correct Answer: 247500

QID : 76 - If $6A = 4B = 9C$; What is $A : B : C$?

Options:

- 1) 6 : 4 : 9
- 2) 9 : 4 : 6
- 3) 4 : 9 : 6
- 4) 6 : 9 : 4

Correct Answer: 6 : 9 : 4

QID : 77 - If 50 less had applied and 25 less selected, the ratio of selected to unselected would have been 9 : 4. So how many candidates had applied if the ratio of selected to unselected was 2 : 1.

Options:

- 1) 125
- 2) 250
- 3) 375
- 4) 500

Correct Answer: 375

QID : 78 - What is the fourth proportional to 189, 273 and 153?

Options:

- 1) 117
- 2) 299
- 3) 221
- 4) 187

Correct Answer: 221

QID : 79 - Rs 11,550 has to be divided between X, Y & Z such that X gets $\frac{4}{5}$ of what Y gets and Y gets $\frac{2}{3}$ of what Z gets. How much more does Z get over X (in Rs)?

Options:

- 1) 7200
- 2) 1800
- 3) $=13 \times 9$
- 4) 2450

Correct Answer: 2450

QID : 80 - Before a battle the ratio of tanks to planes in an army was 5 : 3. During the war 1000 tanks were destroyed and 800 planes were destroyed. The ratio of tanks to planes became 2 : 1. What is the number of tanks after the war.

Options:

- 1) 2000
- 2) 1000
- 3) 3000
- 4) 4000

Correct Answer: 2000

QID : 81 - The average marks of 50 students in an examination was 65. It was later found that the marks of one student had been wrongly entered as 83 instead of 38. The correct average is?

Options:

- 1) 63.9
- 2) 64.5
- 3) 64.7



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4) 64.1

Correct Answer: 64.1

QID : 82 - In a class of 50 students there are 22 girls who scored an average of 35 marks in the test. What is the average marks of the boys if the class average is 42 marks?

Options:

- 1) 50
- 2) 52.5
- 3) 47.5
- 4) 55

Correct Answer: 47.5

QID : 83 - The average of 41 consecutive odd numbers is 49. What is the largest number.

Options:

- 1) 89
- 2) 91
- 3) 93
- 4) 95

Correct Answer: 89

QID : 84 - A batsman scores 87 runs in the 21st match of his career. His average runs per match increases by 2. What was his average before the 21st match.

Options:

- 1) 45
- 2) 46
- 3) 44
- 4) 43

Correct Answer: 45

QID : 85 - Oil equal to 20% of the weight of ground nut is extracted in a mill. The matter left after extraction is sold as cattle feed at the rate of Rs 12.5/kg. The groundnuts are bought at Rs 20/kg. The processing cost is Rs 5/kg. At what price (Rs per kg) should the oil be sold to earn 20% profit on total costs (Total cost = Cost of groundnuts and Processing costs)?

Options:

- 1) 250
- 2) 150
- 3) 200
- 4) 100

Correct Answer: 100

QID : 86 - If a vendor sells a coconut at Rs 14.4 he makes 10% loss. If he wants to make 25% profit, then at what price (in Rs) should he sell?

Options:

- 1) 18
- 2) 20
- 3) 16
- 4) 22

Correct Answer: 20

QID : 87 - At a village trade fair a man buys a horse and a camel together for Rs 51,250. He sold the horse at a profit of 25 % and the camel at a loss of 20 %. If he sold both the animals at the same price, then the cost price of the cheaper animal was Rs _____.

Options:

- 1) 6600
- 2) 7500
- 3) 25000



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4) 20000

Correct Answer: 20000

QID : 88 - On a certain item profit is 150%. If the cost price increases by 25% what will be the new profit margin (in %)?

Options:

- 1) 25
- 2) 50
- 3) 100
- 4) 75

Correct Answer: 100

QID : 89 - 40% are the passing marks. A student gets 250 marks yet fails by 38 marks. What is the maximum marks?

Options:

- 1) 720
- 2) 750
- 3) 800
- 4) 840

Correct Answer: 720

QID : 90 - Ravi is 12 years younger than Surya. Ravi's age is 40% of the sum of his and Surya's age. What will be Surya's age 9 years hence?

Options:

- 1) 36
- 2) 24
- 3) 33
- 4) 45

Correct Answer: 45

QID : 91 - 5% of $a = b$, then $b\%$ of 20 is the same as _____.

Options:

- 1) 20% of $a/2$
- 2) 50% of $a/20$
- 3) 50% of $a/2$
- 4) 20% of $a/20$

Correct Answer: 20% of $a/20$

QID : 92 - A man's annual income has increased by Rs 5 lakhs but the tax on income that he has to pay has reduced from 12% to 10%. He now pays Rs 10,000 more income tax. What is his increased income (in Rs lakhs)?

Options:

- 1) 20
- 2) 25
- 3) 15
- 4) 10

Correct Answer: 25

QID : 93 - A racing car going at an average speed of 108 km/hr takes 15 minutes to complete a lap on a racing track. By how much should it increase its speed (in km/hr) to complete the lap in 12 minutes?

Options:

- 1) 24
- 2) 21
- 3) 27
- 4) 30

Correct Answer: 27



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QID : 94 - Train A takes 45 minutes more than train B to travel a distance of 450 km. Due to engine trouble speed of train B falls by a quarter, so it takes 30 minutes more than Train A to complete the same journey. What is the speed of Train A (in km/hr)?

Options:

- 1) 90
- 2) 120
- 3) 100
- 4) 110

Correct Answer: 100

QID : 95 - Two cars A and B travel from one city to another, at speeds of 72 km/hr and 90 km/hr respectively. If car B takes 1 hour lesser than car A for the journey, then what is the distance (in km) between the two cities?

Options:

- 1) 270
- 2) 360
- 3) 240
- 4) 400

Correct Answer: 360

QID : 96 - B starts 4 minutes after A from the same point, for a place at a distance of 7 miles from the starting point. A on reaching the destination turns back and walks a mile where he meets B. If A's speed is a mile in 8 minutes then B's speed is a mile in ____ minutes.

Options:

- 1) 9
- 2) 12

3) 10

4) 8

Correct Answer: 10

QID : 97 - If the amount on a certain principal in 3 years at 12% rate of interest compounded annually is Rs 12,000, what will be the amount (in Rs) after the 4th year?

Options:

- 1) 14330
- 2) 15440
- 3) 13440
- 4) 14550

Correct Answer: 13440

QID : 98 - The amount (in Rs) received at 10% per annum compound interest after 3 yrs is Rs 1,19,790. What was the principal?

Options:

- 1) 90000
- 2) 1,00,000
- 3) 80000
- 4) 75000

Correct Answer: 90000

QID : 99 - In how many months will Rs 8,000 yield Rs 2,648 as compound interest at 20% per annum compounded semi-annually?

Options:

- 1) 18
- 2) 24
- 3) 12



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4) 30

Correct Answer: 18

QID : 100 - What is the rate of interest (in %) if simple interest earned on a certain sum for the 3rd year is Rs 2,000 and compound interest earned in 2 years is Rs 4,160?

Options:

1) 8

2) 10

3) 12

4) 6

Correct Answer: 8



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