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www.Joblal.com www.joinexam.in www.examyou.com (1) A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is:

[A] 720

[B] 900

[C] 1200

[D] 1800

Answer : [C]

Explanation:

2(15 + 12) x h = 2(15 x 12)
⇒ h =
$$\frac{180}{27}$$
m = $\frac{20}{3}$ m.
∴ Volume = $\left(15 \times 12 \times \frac{20}{3}\right)_{m^3}$ = 1200 m³.

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(2) In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:

[A] 75 cu. m

[B] 750 cu. m

[C] 7500 cu. m

[D] 75000 cu. m

Answer : [B]

Explanation:

1 hectare = 10,000 m² So, Area = (1.5 x 10000) m² = 15000 m². Depth = $\frac{5}{100}$ m = $\frac{1}{20}$ m.

$$\therefore \text{ Volume} = (\text{Area x Depth}) = \left(15000 \times \frac{1}{20}\right)_{\text{m}^3} = 750 \text{ m}^3.$$

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(3) 66 cubic centimetres of silver is drawn into a wire 1 mm in diameter. The length of the wire in metres will be:

[A] 84

[B] 90

[C] 168

[D] 336

Answer : [A]

Explanation:

Let the length of the wire be *h*. Radius = $\frac{1}{2}$ mm = $\frac{1}{20}$ cm. Then,

$$\Rightarrow \frac{22}{7} \times \frac{1}{20} \times \frac{1}{20} \times h = 66.$$
$$\Rightarrow h = \left(\frac{66 \times 20 \times 20 \times 7}{22}\right) = 8400 \text{ cm} = 84 \text{ m}.$$

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(4) A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m³) is:

[A] 4830

[B] 5120

[C] 6420

[D] 8960

Answer : [B]

Explanation:

Clearly, l = (48 - 16)m = 32 m, b = (36 - 16)m = 20 m, h = 8 m. \therefore Volume of the box = (32 x 20 x 8) m³ = 5120 m³.

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(5) A large cube is formed from the material obtained by melting three smaller cubes of 3, 4 and 5 cm side. What is the ratio of the total surface areas of the smaller cubes and the large cube?

[A] 2 : 1 [B] 3 : 2

[C] 25 : 18

[D] 27 : 20

Answer : [C]

Explanation:

Volume of the large cube = $(3^3 + 4^3 + 5^3) = 216 \text{ cm}^3$. Let the edge of the large cube be *a*.

So, $a^3 = 216 \implies a = 6 \text{ cm.}$ \therefore Required ratio = $\left(\frac{6 \times (3^2 + 4^2 + 5^2)}{6 \times 6^2}\right) = \frac{50}{36} = 25 : 18.$

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(6) 1397 x 1397 = ?

[A] 1951609

[B] 1981709

[C] 18362619

[D] 2031719

[E] None of these

Answer : [A]

Explanation: $1397 \times 1397 = (1397)^2$

- $= (1400 3)^2$
- $= (1400)^2 + (3)^2 (2 \times 1400 \times 3)$
- = 1960000 + 9 8400
- = 1960009 8400
- = 1951609.

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(7) How many 3-digit numbers are completely divisible 6?

[A] 149

[B] 150

[C] 151

[D] 166

Answer : [B]

Explanation:

3-digit number divisible by 6 are: 102, 108, 114,..., 996 This is an A.P. in which a = 102, d = 6 and l = 996Let the number of terms be n. Then $t_n = 996$. $\therefore a + (n - 1)d = 996$ $\Rightarrow 102 + (n - 1) x 6 = 996$ $\Rightarrow 6 x (n - 1) = 894$ $\Rightarrow (n - 1) = 149$ $\Rightarrow n = 150$ \therefore Number of terms = 150.

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(8)

$$9 + \frac{3}{4} + 7 + \frac{2}{17} - \left(9 + \frac{1}{15}\right) = ?$$

[A]
 $7 + \frac{719}{1020}$
[B]
 $9 + \frac{817}{1020}$
[C]
 $9 + \frac{719}{1020}$
[D]
 $7 + \frac{817}{1020}$

[E] None of these

Answer : [D]

Explanation:

Given sum = 9 +
$$\frac{3}{4}$$
 + 7 + $\frac{2}{17}$ - $\left(9 + \frac{1}{15}\right)^{-1}$
= (9 + 7 - 9) + $\left(\frac{3}{4} + \frac{2}{17} - \frac{1}{15}\right)^{-1}$
= 7 + $\frac{765 + 120 - 68}{1020}$
= 7 + $\frac{817}{1020}$

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(9) 9548 + 7314 = 8362 + (?)						
[A] 8230						
[B] 8410						
[C] 8500						
[D] 8600						
[E] None of the	ese					
Answer : [C]						
Explanation:						
9548	16862 = 8362 + <i>x</i> + 7314	x = 16862 - 8362		= 8500	16862	

(10) Which one of the following can't be the square of natural number ?

[A] 30976

- [B] 75625
- [C] 28561
- [D] 143642
- [E] None of these

Answer : [D]

Explanation:

The square of a natural number nerver ends in 2. \therefore 143642 is not the square of natural number.

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(11) The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum (in Rs.) is:

[A] 625

[B] 630

[C] 640

[D] 650

Answer : [A]

Explanation:

Let the sum be Rs. x. Then, C.I. = $\left[x \left(1 + \frac{4}{100}\right)^2 - x\right] = \left(\frac{676}{625}x - x\right) = \frac{51}{625}x.$ S.I. = $\left(\frac{x \times 4 \times 2}{100}\right) = \frac{2x}{25}.$ $\therefore \frac{51x}{625} - \frac{2x}{25} = 1$

 $\Rightarrow x = 625.$

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(12) There is 60% increase in an amount in 6 years at simple interest. What will be the compound interest of Rs. 12,000 after 3 years at the same rate?

[A] Rs. 2160

[B] Rs. 3120

[C] Rs. 3972

[D] Rs. 6240

[E] None of these

Answer : [C]

Explanation:

Let P = Rs. 100. Then, S.I. Rs. 60 and T = 6 years. $\therefore R = \left(\frac{100 \times 60}{100 \times 6}\right) = 10\% \text{ p.a.}$

Now, P = Rs. 12000. T = 3 years and R = 10% p.a.

$$\therefore$$
 C.I. = Rs. $\left[12000 \times \left\{ \left(1 + \frac{10}{100} \right)^3 - 1 \right\} \right]$
= Rs. $\left(12000 \times \frac{331}{1000} \right)$
= 3972.

(13) The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is:

[A]	6.06%
-----	-------

[B] 6.07%

[C] 6.08%

[D] 6.09%

Answer : [D]

Explanation:

Amount of Rs. 100 for 1 year when compounded half-yearly = Rs. $\left[100 \times \left(1 + \frac{3}{100}\right)^2\right]$ = Rs. 106.09

 \therefore Effective rate = (106.09 - 100)% = 6.09%

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(14) The least number of complete years in which a sum of money put out at 20% compound interest will be more than doubled is:

- [A] 3
- [B] 4
- [C] 5
- [D] 6

Answer : [B]

Explanation:

$$P\left(1 + \frac{20}{100}\right)^n > 2P \implies \left(\frac{6}{5}\right)^n > 2.$$
Now, $\left(\frac{6}{5} \times \frac{6}{5} \times \frac{6}{5} \times \frac{6}{5}\right) > 2.$

So, n = 4 years.

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(15) The compound interest on a certain sum for 2 years at 10% per annum is Rs. 525. The simple interest on the same sum for double the time at half the rate percent per annum is:

[A] Rs. 400

[B] Rs. 500

[C] Rs. 600

[D] Rs. 800

Answer : [B]

Explanation:

Let the sum be Rs. P. Then, $\left[P\left(1+\frac{10}{100}\right)^2 - P\right] = 525$ $\Rightarrow P\left[\left(\frac{11}{10}\right)^2 - 1\right] = 525$ $\Rightarrow P = \left(\frac{525 \times 100}{21}\right) = 2500.$ \therefore Sum = Rs . 2500. So, S.I. = Rs. $\left(\frac{2500 \times 5 \times 4}{100}\right) =$ Rs. 500

(16) A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

Explanation:			
Answer : [D]			
[D] 90			
[C] 75			
[B] 60			
[A] 45			

Let number of notes of each denomination be x. Then x + 5x + 10x = 480 $\Rightarrow 16x = 480$ $\therefore x = 30$. Hence, total number of notes = 3x = 90.

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(17) There are two examinations rooms A and B. If 10 students are sent from A to B, then the number of students in each room is the same. If 20 candidates are sent from B to A, then the number of students in A is double the number of students in B. The number of students in room A is:

[A] 20

[B] 80

[C] 100

[D] 200

Answer : [C]

Explanation:

Let the number of students in rooms A and B be x and y respectively. Then, $x - 10 = y + 10 \implies x - y = 20 \dots$ (i) and $x + 20 = 2(y - 20) \implies x - 2y = -60 \dots$ (ii) Solving (i) and (ii) we get: x = 100, y = 80.

 \therefore The required answer A = 100.

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(18) To fill a tank, 25 buckets of water is required. How many buckets of water will be required to fill the same tank if the capacity of the bucket is reduced to two-fifth of its present ?

[A] 10

[B] 35

[C] 62.5

[D] Cannot be determined

[E] None of these

Answer : [C]

Explanation: Let the capacity of 1 bucket = x. Then, the capacity of tank = 25x. New capacity of bucket = $\frac{2}{5}x$

 \therefore Required number of buckets = $\frac{25x}{(2x/5)}$

$$= \left(\sum_{25x} \times \frac{5}{2x} \right)$$

$$=\frac{125}{2}$$

= 62.5

(19) $\frac{(469 + 174)^2 - (469 - 174)^2}{(469 \times 174)} = ?$ [A] 2 [B] 4 [C] 295 [D] 643 Answer : [B] Explanation: Given exp. = $\frac{(a + b)^2 - (a - b)^2}{ab}$ = $\frac{4ab}{ab}$ = 4 (where a = 469, b = 174.)

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(20) In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hours for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for ?

[A] 160

[B] 175

[C] 180

[D] 195

Answer : [B]

Explanation:

Suppose the man works overtime for x hours. Now, working hours in 4 weeks = $(5 \times 8 \times 4) = 160$. $\therefore 160 \times 2.40 + x \times 3.20 = 432$ $\Rightarrow 3.20x = 432 - 384 = 48$ $\Rightarrow x = 15$. Hence, total hours of work = (160 + 15) = 175.

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