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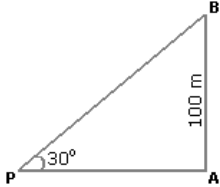
(1) From a point P on a level ground, the angle of elevation of the top tower is  $30^\circ$ . If the tower is 100 m high, the distance of point P from the foot of the tower is:

- [A] 149 m
- [B] 156 m
- [C] 173 m
- [D] 200 m

Answer : [C]

**Explanation:**

Let AB be the tower.



Then,  $\angle APB = 30^\circ$  and  $AB = 100$  m.

$$\frac{AB}{AP} = \tan 30^\circ = \frac{1}{\sqrt{3}}$$

$$\Rightarrow AP = (AB \times \sqrt{3}) \text{ m}$$

$$= 100 \sqrt{3} \text{ m}$$

$$= (100 \times 1.73) \text{ m}$$

$$= 173 \text{ m.}$$

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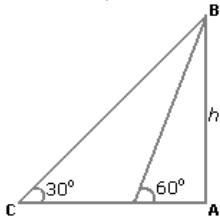
(2) A man standing at a point P is watching the top of a tower, which makes an angle of elevation of  $30^\circ$  with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes  $60^\circ$ . What is the distance between the base of the tower and the point P?

- [A]  $4\sqrt{3}$  units
- [B] 8 units
- [C] 12 units
- [D] Data inadequate
- [E] None of these

Answer : [D]

**Explanation:**

One of AB, AD and CD must have given.



So, the data is inadequate.

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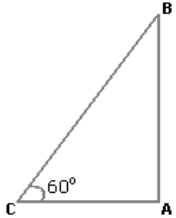
(3) The angle of elevation of a ladder leaning against a wall is  $60^\circ$  and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is:

- [A] 2.3 m
- [B] 4.6 m
- [C] 7.8 m
- [D] 9.2 m

Answer : [D]

**Explanation:**

Let AB be the wall and BC be the ladder.



Then,  $\angle ACB = 60^\circ$  and  $AC = 4.6$  m.

$$\frac{AC}{BC} = \cos 60^\circ = \frac{1}{2}$$

$$\Rightarrow BC = 2 \times AC$$

$$= (2 \times 4.6) \text{ m}$$

$$= 9.2 \text{ m.}$$

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(4) Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are  $30^\circ$  and  $45^\circ$  respectively. If the lighthouse is 100 m high, the distance between the two ships is:

[A] 173 m

[B] 200 m

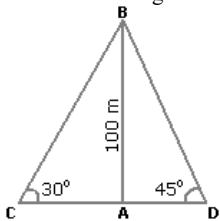
[C] 273 m

[D] 300 m

**Answer : [C]**

**Explanation:**

Let AB be the lighthouse and C and D be the positions of the ships.



Then,  $AB = 100$  m,  $\angle ACB = 30^\circ$  and  $\angle ADB = 45^\circ$ .

$$\frac{AB}{AC} = \tan 30^\circ = \frac{1}{\sqrt{3}} \Rightarrow AC = AB \times \sqrt{3} = 100\sqrt{3} \text{ m.}$$

$$\frac{AB}{AD} = \tan 45^\circ = 1 \Rightarrow AD = AB = 100 \text{ m.}$$

$$\therefore CD = (AC + AD) = (100\sqrt{3} + 100) \text{ m}$$

$$= 100(\sqrt{3} + 1)$$

$$= (100 \times 2.73) \text{ m}$$

$$= 273 \text{ m.}$$

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(5) An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

[A] 144°

[B] 150°

[C] 168°

[D] 180°

**Answer : [D]**

**Explanation:**

$$\text{Angle traced by the hour hand in 6 hours} = \left( \frac{360}{12} \times 6 \right)^\circ = 180^\circ.$$

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**(6) How much does a watch lose per day, if its hands coincide every 64 minutes?**

[A]  
 $32\frac{8}{11}$  min.

[B]  
 $36\frac{5}{11}$  min.

[C] 90 min.

[D] 96 min.

**Answer : [A]**

**Explanation:**

55 min. spaces are covered in 60 min.

60 min. spaces are covered in  $\left( \frac{60}{55} \times 60 \right)_{\text{min.}} = 65\frac{5}{11}$  min.

Loss in 64 min. =  $\left( 65\frac{5}{11} - 64 \right) = \frac{16}{11}$  min.

Loss in 24 hrs =  $\left( \frac{16}{11} \times \frac{1}{64} \times 24 \times 60 \right)_{\text{min.}} = 32\frac{8}{11}$  min.

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**(7) At what time between 4 and 5 o'clock will the hands of a watch point in opposite directions?**

[A] 45 min. past 4

[B] 40 min. past 4

[C]  
 $50\frac{4}{11}$  min. past 4

[D]  
 $54\frac{6}{11}$  min. past 4

**Answer : [D]**

**Explanation:**

At 4 o'clock, the hands of the watch are 20 min. spaces apart.

To be in opposite directions, they must be 30 min. spaces apart.

∴ Minute hand will have to gain 50 min. spaces.

55 min. spaces are gained in 60 min.

50 min. spaces are gained in  $\left( \frac{60}{55} \times 50 \right)_{\text{min.}} \text{ or } 54\frac{6}{11}$  min.

∴ Required time =  $54\frac{6}{11}$  min. past 4.

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**(8) How many times do the hands of a clock coincide in a day?**

[A] 20

[B] 21

[C] 22

[D] 24

**Answer : [C]**

**Explanation:**

The hands of a clock coincide 11 times in every 12 hours (Since between 11 and 1, they coincide only once, *i.e.*, at 12 o'clock).

**AM**

12:00  
1:05  
2:11  
3:16  
4:22  
5:27  
6:33  
7:38  
8:44  
9:49  
10:55

**PM**

12:00  
1:05  
2:11  
3:16  
4:22  
5:27  
6:33  
7:38  
8:44  
9:49  
10:55

The hands overlap about every 65 minutes, not every 60 minutes.

∴ The hands coincide 22 times in a day.

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(9) A and B together have Rs. 1210. If  $\frac{4}{15}$  of A's amount is equal to  $\frac{2}{5}$  of B's amount, how much amount does B have?

[A] Rs. 460

[B] Rs. 484

[C] Rs. 550

[D] Rs. 664

**Answer : [B]**

**Explanation:**

$$\frac{4}{15} A = \frac{2}{5} B$$

$$\Rightarrow A = \left( \frac{2}{5} \times \frac{15}{4} \right) B$$

$$\Rightarrow A = \frac{3}{2} B$$

$$\Rightarrow \frac{A}{B} = \frac{3}{2}$$

$$\Rightarrow A : B = 3 : 2.$$

$$\therefore \text{B's share} = \text{Rs.} \left( 1210 \times \frac{2}{5} \right) = \text{Rs.} 484.$$

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(10) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

[A] 2 : 5

[B] 3 : 5

[C] 4 : 5

[D] 6 : 7

**Answer : [C]**

**Explanation:**

Let the third number be  $x$ .

$$\text{Then, first number} = 120\% \text{ of } x = \frac{120x}{100} = \frac{6x}{5}$$

$$\text{Second number} = 150\% \text{ of } x = \frac{150x}{100} = \frac{3x}{2}$$

$$\therefore \text{Ratio of first two numbers} = \left(\frac{6x}{5} : \frac{3x}{2}\right) = 12x : 15x = 4 : 5.$$

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**(11) In a mixture 60 litres, the ratio of milk and water 2 : 1. If the this ratio is to be 1 : 2, then the quantity of water to be further added is:**

[A] 20 litres

[B] 30 litres

[C] 40 litres

[D] 60 litres

**Answer : [D]**

**Explanation:**

$$\text{Quantity of milk} = \left(60 \times \frac{2}{3}\right) \text{ litres} = 40 \text{ litres.}$$

Quantity of water in it = (60- 40) litres = 20 litres.

New ratio = 1 : 2

Let quantity of water to be added further be  $x$  litres.

$$\text{Then, milk : water} = \left(\frac{40}{20 + x}\right).$$

$$\text{Now, } \left(\frac{40}{20 + x}\right) = \frac{1}{2}$$

$$\Rightarrow 20 + x = 80$$

$$\Rightarrow x = 60.$$

$\therefore$  Quantity of water to be added = 60 litres.

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**(12) The sum of three numbers is 98. If the ratio of the first to second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is:**

[A] 20

[B] 30

[C] 48

[D] 58

**Answer : [B]**

**Explanation:**

Let the three parts be A, B, C. Then,

$$A : B = 2 : 3 \text{ and } B : C = 5 : 8 = \left(5 \times \frac{3}{5}\right) : \left(8 \times \frac{3}{5}\right) = 3 : \frac{24}{5}$$

$$\Rightarrow A : B : C = 2 : 3 : \frac{24}{5} = 10 : 15 : 24$$

$$\Rightarrow B = \left(98 \times \frac{15}{49}\right) = 30.$$

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**(13) The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?**

[A] 8 : 9

[B] 17 : 18

[C] 21 : 22

[D] Cannot be determined

**Answer : [C]**

**Explanation:**

Originally, let the number of boys and girls in the college be  $7x$  and  $8x$  respectively. Their increased number is (120% of  $7x$ ) and (110% of  $8x$ ).

$$\Rightarrow \left(\frac{120}{100} \times 7x\right) \text{ and } \left(\frac{110}{100} \times 8x\right)$$

$$\Rightarrow \frac{42x}{5} \text{ and } \frac{44x}{5}$$

$$\therefore \text{The required ratio} = \left(\frac{42x}{5} : \frac{44x}{5}\right) = 21 : 22.$$

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**(14) The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?**

[A] 3 : 3 : 10

[B] 10 : 11 : 20

[C] 23 : 33 : 60

[D] Cannot be determined

**Answer : [C]**

**Explanation:**

Let  $A = 2k$ ,  $B = 3k$  and  $C = 5k$ .

$$\text{A's new salary} = \frac{115}{100} \text{ of } 2k = \left(\frac{115}{100} \times 2k\right) = \frac{23k}{10}$$

$$\text{B's new salary} = \frac{110}{100} \text{ of } 3k = \left(\frac{110}{100} \times 3k\right) = \frac{33k}{10}$$

$$\text{C's new salary} = \frac{120}{100} \text{ of } 5k = \left(\frac{120}{100} \times 5k\right) = 6k$$

$$\therefore \text{New ratio} \left(\frac{23k}{10} : \frac{33k}{10} : 6k\right) = 23 : 33 : 60$$

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**(15) Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?**

[A] 210

[B] 1050

[C] 25200

[D] 21400

[E] None of these

**Answer : [C]**

**Explanation:**

Number of ways of selecting (3 consonants out of 7) and (2 vowels out of 4)

$$= {}^7C_3 \times {}^4C_2$$

$$= \left(\frac{7 \times 6 \times 5}{3 \times 2 \times 1} \times \frac{4 \times 3}{2 \times 1}\right)$$

$$= 210.$$

Number of groups, each having 3 consonants and 2 vowels = 210.

Each group contains 5 letters.

Number of ways of arranging = 5!  
5 letters among themselves

$$= 5 \times 4 \times 3 \times 2 \times 1$$

$$= 120.$$

∴ Required number of ways =  $(210 \times 120) = 25200$ .

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**(16) In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?**

[A] 810

[B] 1440

[C] 2880

[D] 50400

[E] 5760

**Answer : [D]**

**Explanation:**

In the word 'CORPORATION', we treat the vowels OOAIO as one letter.

Thus, we have CRPRTN (OOAIO).

This has 7 (6 + 1) letters of which R occurs 2 times and the rest are different.

Number of ways arranging these letters =  $\frac{7!}{2!} = 2520$ .

Now, 5 vowels in which O occurs 3 times and the rest are different, can be arranged

in  $\frac{5!}{3!} = 20$  ways.

∴ Required number of ways =  $(2520 \times 20) = 50400$ .

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**(17) In how many ways can the letters of the word 'LEADER' be arranged?**

[A] 72

[B] 144

[C] 360

[D] 720

[E] None of these

**Answer : [C]**

**Explanation:**

The word 'LEADER' contains 6 letters, namely 1L, 2E, 1A, 1D and 1R.

∴ Required number of ways =  $\frac{6!}{(1!)(2!)(1!)(1!)(1!)} = 360$ .

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**(18) In how many different ways can the letters of the word 'DETAIL' be arranged in such a way that the vowels occupy only the odd positions?**

[A] 32

[B] 48

[C] 36

[D] 60

[E] 120

**Answer : [C]**

**Explanation:**

There are 6 letters in the given word, out of which there are 3 vowels and 3 consonants.



Let us mark these positions as under:

(1) (2) (3) (4) (5) (6)

Now, 3 vowels can be placed at any of the three places out of 4, marked 1, 3, 5.

Number of ways of arranging the vowels =  ${}^3P_3 = 3! = 6$ .

Also, the 3 consonants can be arranged at the remaining 3 positions.

Number of ways of these arrangements =  ${}^3P_3 = 3! = 6$ .

Total number of ways =  $(6 \times 6) = 36$ .

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**(19) A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?**

[A] 32

[B] 48

[C] 64

[D] 96

[E] None of these

**Answer : [C]**

**Explanation:**

We may have (1 black and 2 non-black) or (2 black and 1 non-black) or (3 black).

∴ Required number of ways =  $({}^3C_1 \times {}^6C_2) + ({}^3C_2 \times {}^6C_1) + ({}^3C_3)$

$$= \left( 3 \times \frac{6 \times 5}{2 \times 1} \right) + \left( \frac{3 \times 2}{2 \times 1} \times 6 \right) + 1$$

$$= (45 + 18 + 1)$$

$$= 64.$$

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**(20) In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?**

[A] 63

[B] 90

[C] 126

[D] 45

[E] 135

**Answer : [A]**

**Explanation:**

Required number of ways =  $({}^7C_5 \times {}^3C_2) = ({}^7C_2 \times {}^3C_1) = \left( \frac{7 \times 6}{2 \times 1} \times 3 \right) = 63$ .

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