

A general set of instructions/suggestions to improve your score

Hi there, you've done well. Know that acquiring knowledge is one thing and reproducing it in paper according to what's asked is another. There are a few things I would like to highlight.

1. A 5 marks part requires at least 2 and at max 3 sides of a paper. Know that there can be two or three parts of a question and their marks are divided accordingly. So, address all of them in a just manner.

2. Focus on time management. You get 35 minutes to solve one question and about 8 minutes per 5 mark part. Manage your time accordingly.

3. You need to understand that your paper is supposed to look more scientific than theoretical. So, add flowcharts and diagrams where required.

4. Your handwriting and neatness can be really impactful. Avoid cutting and overwriting.

5. Focus on your spellings and your grammar. Here, in GSA there's no deduction in marks but your expression will definitely create an impact.

6. In ability portion, give explanation for analytical ability question in words. You need to understand that a 5 mark part requires all steps written and explained.

Good luck for CSS 2025. You're gonna rock in sha Allah. :)

2

//_/05

Now Subtract 50 on the other side
we get.

$$\frac{x}{6} = \frac{60}{6} \quad x + 50 = 60$$

$$\frac{x}{6} = 60 - 50$$

$$\frac{x}{6} = 10$$

To find the value of x , multiply 6
on the other side with 10, we get

$$\frac{x}{6} = 10$$

$$x = 10 \times 6$$

$$x = 60$$

So, the missing number or the value
of x is 60.

(part b)

Find the odd one out.

8, 16, 24, 34, 40, 48

→ In order to find the odd one out, we need to analyze the given series 8, 16, 24, 34, 40, 48

→ All the numbers in the series are multiples of 8 except 34.

- (i) $8 = 8 \times 1$ (ii) $16 = 8 \times 2$ (iii) $24 = 8 \times 3$
 (iv) $40 = 8 \times 5$ (v) $48 = 8 \times 6$

Whereas, 34 is not a multiple of 8 where the rest are.

Therefore 34 is the odd one out.

(Part c)

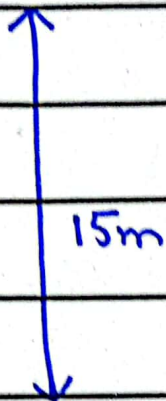
In order to find the aerial distance when base and height is given.

We can use Pythagoras theorem because ^{according} the data it forms right-angle triangle.

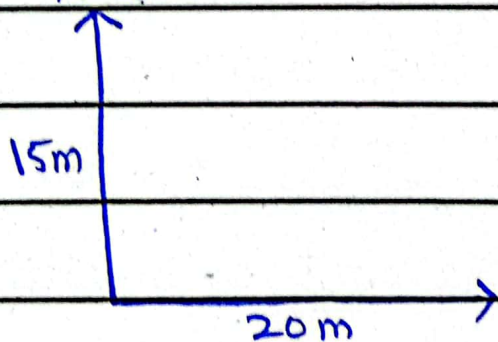
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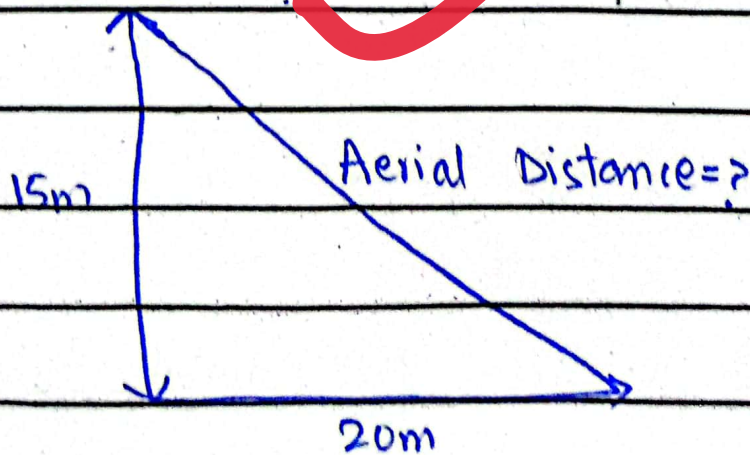
→ We know that height of the tower is 15m



→ A person is standing ^{20m} from base of the tower



→ Aerial Distance = ?



By using Pathagorus Theorem, we get

$$(\text{Hypotenuse})^2 = (\text{Base})^2 + (\text{Perp})^2$$

$$(\text{Hyp})^2 = (B)^2 + (P)^2 \quad [\text{Put values of B, P}]$$

$$\begin{aligned} (\text{Hyp})^2 &= (20)^2 + (P)^2 \\ &= 400 + 225 \end{aligned}$$

$$H^2 = 625$$

Taking Square root on b/s both sides.

$$\sqrt{\text{Hypotenuse}^2} = \sqrt{625}$$

$$\boxed{\text{Hypotenuse} = 25}$$

From above calculations, aerial distance from tower is 25 meters

6

(Part - d)

1/1/20

odd date tariff = Rs 1000

Even date tariff = Rs 2000

Totot amount paid = Rs. 30,000

let odd days be x

let even days be y

So, the total cost is

$$1000x + 2000y = 30,000$$

We know that starting date is 5th which is an odd date. So, the first day will charge Rs. 1000.

If $y = 10$, $x = 10$

Then this means 10 odd days and 10 even days.

So, the total cost becomes

7

1-1-20

$$\text{Cost of } x = 1000 \times 10 = 10000 \rightarrow \textcircled{1}$$

$$\text{Cost of } y = 2000 \times 10 = 20000 \rightarrow \textcircled{2}$$

Adding $\textcircled{1}$ & $\textcircled{2}$

$$\begin{aligned} \text{Cost of } x + \text{Cost of } y &= 10000 + 20000 \\ &= 30,000 \text{ — which is equal} \\ &\text{to the total given —} \end{aligned}$$

So, the man stayed in the hotel for 20 days.

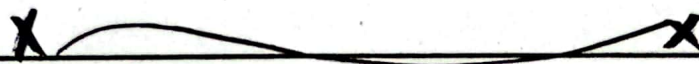
QUESTION # 08

(Part a)

→ The primary shape used for mosque's prayer halls is of a triangular shape.
The formula for that is

$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

→ Base is length of base of triangle.
Height is the distance in perpendicular



(Part - c)

According to given situation:-

(i) A is the brother of B, making A and B are siblings.

(ii) B is the sister of C, also makes B and C, siblings.

(iii) C is the father of D

(iv) Also, A and C are siblings

How D is related to A

→ Since, A, B, C are siblings and C is D's father. Therefore it concludes that A is the uncle of D.

→ If D is a male member then D is the nephew of A.

X ~~~~~ X

(part - d)

ROAR → URDU

R $\xrightarrow{+3}$ U

O $\xrightarrow{+3}$ R

A $\xrightarrow{+3}$ D

R $\xrightarrow{+3}$ U

Using same method of +3 Alphabets in Urdu we get

U $\xrightarrow{+3}$ X

R $\xrightarrow{+3}$ U

D $\xrightarrow{+3}$ G

U $\xrightarrow{+3}$ X

XUGX

~~URDU~~
~~URDU~~

after 3 jumps in Alphabets
becomes XUGX Explain in words

X ~~~~~ X

(Part - b)

Total mixture = 60 litres

In this milk and water ratio = 2:1

Total Ratio = 2 (milk) + 1 (water) = 3

Milk Quantity = $\frac{2}{3} \times 60$

= 40 litres

Water Quantity = $\frac{1}{3} \times 60$

= 20 litres

→ If the ratio is 1:2, the water quantity = ?

→ let x be that new quantity.

$$\text{Water} = 20 + x$$

The new ratio is 1:2 also $\frac{1}{2}$

$$\frac{1}{2} = \frac{40}{20+x} \quad (\text{For milk's value})$$

$$2 \quad 20+x \quad (\text{For Water's value})$$

Finding x :

$$\frac{1}{2} = \frac{40}{20+x}$$

$$40 \times 2 = 20 + x$$

$$80 = 20 + x$$

$$80 - 20 = x$$

$$x = 60 \text{ litres}$$

60 litres of water ~~is~~ to be added
for 1:2

x ~~~~~ x