

Dos and Don'ts for General Science & Ability Paper

Hi there, you've done well. Know that requiring 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 most 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. :)

$$\text{Ashraf's share} = 7 \left(\frac{360}{4320} \right)$$

$$= \text{Rs } 9550$$

Q2c) What 7m?

Solution:-

Given that:-

$$\text{radius} = r = 7\text{m}$$

Find:-

Surface Area of a sphere = ?

Volume of a sphere = ?

Formula:-

$$\text{Surface Area of a sphere} = 4\pi r^2$$

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

After putting values in the above two formulas, we get:-

$$\therefore \pi = 3.14$$

$$\text{Surface area of a sphere} = 4 \times 3.14 \times (7)^2$$

$$= 4 \times 3.14 \times 49$$

$$\text{Surface area of a sphere} = 615.44 \text{m}^2$$

$$\text{Volume of a sphere} = \frac{4}{3} \times 3.14 \times (7)^3$$

$$= 1.33 \times 3.14 \times 343$$

$$\text{Volume of a sphere} = 1432.44 \text{m}^3$$

(b) Hassan ----- of each.

Solution:-

From the above we extract the following equations.

$$\text{Nasir's pocket money} = N \rightarrow \text{eq (1)}$$

$$\text{AKbar's pocket money} = Ak = 3N \rightarrow \text{eq (2)}$$

$$\text{Ali's pocket money} = \overset{\text{Ali}}{S}(Ak) \Rightarrow S(3N)$$

$$\text{Ali's pocket money} = 15N \rightarrow \text{eq (3)}$$

$$\text{Hassan's pocket money} = H = \frac{1}{3}(Au)$$

$$= \frac{1}{3}(15N)$$

$$\text{Hassan's pocket money} = H = 5N \rightarrow \text{eq (4)}$$

$$\text{Shahbaz's pocket money} = S = N + Ali$$

$$S = N + 15N$$

$$\text{Shahbaz's pocket money} = S = 16N \rightarrow \text{eq (5)}$$

Given that:-

$$\text{Total Money} = \text{Rs } 8000/-$$

$$\text{Total money} = N + Ak + Ali + H + S$$

$$8000 = N + 3N + 15N + 5N + 16N$$

$$8000 = 40N$$

$$8000 = 40N$$

$$\frac{8000}{40} = N$$

$$N = 200$$

Putting the value of N in the above equations we get:-

$$\text{Nasir's pocket money} = N = \text{Rs } 200/-$$

$$\text{Akbar's pocket money} = 3N$$

$$= 3(200)$$

$$\text{Akbar's pocket money} = \text{Rs } 600/-$$

$$\text{Ali's pocket money} = 15N$$

$$= 15(200)$$

$$\text{Ali's pocket money} = \text{Rs } 3000/-$$

$$\text{Halsan's pocket money} = 5N$$

$$= 5(200)$$

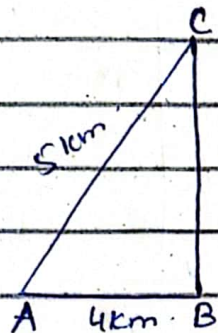
$$\text{Halsan's pocket money} = \text{Rs } 1000/-$$

$$\text{Shahbaz's pocket money} = 16(200)$$

$$\text{Shahbaz's pocket money} = \text{Rs } 3200/-$$

Q (a) A man point?

Solution:-



Given that:-

$$\text{Base} = b = AB = 4 \text{ km}$$

$$\text{Hypotenuse} = h = AC = 5 \text{ km}$$

As we know that:-

$$(h)^2 = (b)^2 + (A)^2 \rightarrow \text{eq (1)} \quad \because A = \text{Attitude}$$

$$BC = ?$$

$$(AC)^2 = (AB)^2 + (BC)^2$$

By using eq (1)

After putting values we get

$$(5)^2 = (4)^2 + (BC)^2$$

$$25 = 16 + (BC)^2$$

$$25 - 16 = (BC)^2$$

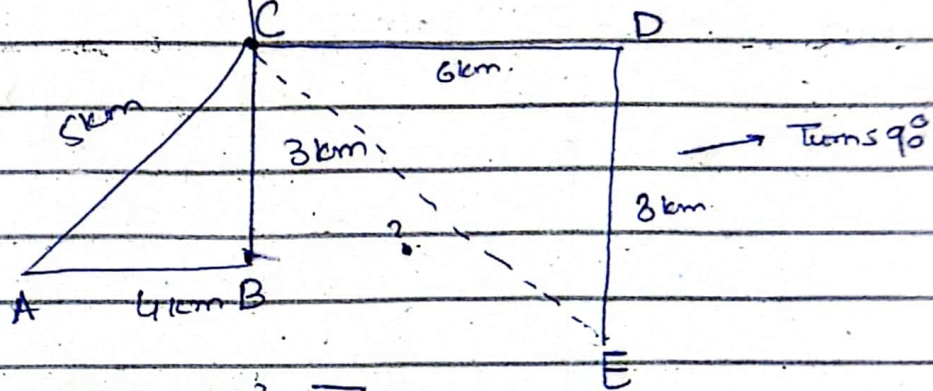
$$9 = (BC)^2$$

Taking square root on both sides

$$\sqrt{9} = (\sqrt{BC})^2$$

$$\boxed{3 \text{ km} = BC}$$

Starting point
for 2nd
case



Using Pythagoras' Theorem.

$$(CE)^2 = (CD)^2 + (DE)^2$$

$$(CE)^2 = (6)^2 + (8)^2$$

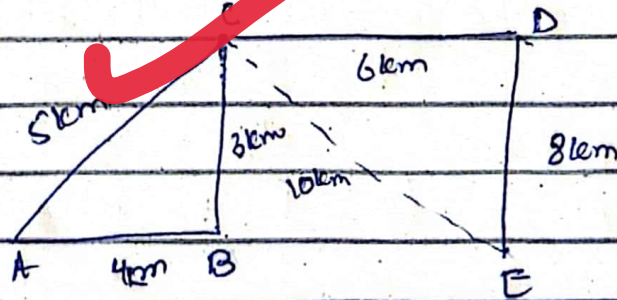
$$(CE)^2 = 36 + 64$$

$$(CE)^2 = 100$$

Taking square root on both sides.

$$\sqrt{(CE)^2} = \sqrt{100}$$

$$CE = 10 \text{ km}$$



So, It is 10 km far from his starting point

Total distance = ?

$$\begin{aligned} \text{Total distance} &= AB + AC + BC + CD + DE \\ &= 4 + 5 + 3 + 6 + 8 \end{aligned}$$

Total Distance	26km
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Q6 (a) Arrange the jumbled words:

(i) teninsuperted

Ans: - Superintendent

(ii) hweti

Ans: - white

(b) A pair final price ?

Solution: - Given that:-

$$\text{original cost} = 80 \text{ \$}$$

$$\text{Discount Rate} = 15\%$$

$$\text{Sale Tax} = 10\%$$

Find:-

Final Price = ?

As we know:-

$$\text{Discount} = \text{original cost} \times \text{Discount Rate}$$

$$\text{Discount} = 80 \times \frac{15}{100}$$

$$= 80 \times 0.15$$

$$\text{Discount} = 12 \text{ \$}$$

$$\text{Sale price} = \text{original cost} - \text{Discount}$$

$$\text{Sale Price} = 80 - 12$$

$$\text{Sale price} = 68 \text{ \pounds}$$

$$\text{Tax paid} = 68 \text{ times } 10\%$$

$$= 68 + \frac{10}{100}$$

$$= 68 \times 1.1$$

$$\text{Tax paid} = 6.8$$

$$\text{Final Price} = 68 + 6.8$$

$$\boxed{\text{Final Price} = 74.8 \text{ \pounds}}$$

Q6(a) In a bag 'B' blocks?

Solution:-

Given that:-

$$A : B : C : D$$

$$4 : 7 : 3 : 1$$

$$\text{Total parts} = 15 \text{ parts.}$$

$$\text{'A' blocks} = \frac{4}{15} (n) \rightarrow \text{eq (1)}$$

$$\text{'B' blocks} = \frac{7}{15} (n) \rightarrow \text{eq (2)}$$

$$\text{'C' blocks} = \frac{3}{15} (n) \rightarrow \text{eq (3)}$$

$$\text{'D' blocks} = \frac{1}{15} (n) \rightarrow \text{eq (4)}$$

$$50 + C = A \rightarrow \text{eq (5)}$$

After putting values we get:-

$$50 + \frac{3x}{15} = \frac{4x}{15}$$

$$50 = \frac{4x}{15} - \frac{3x}{15}$$

$$50 = \frac{4x - 3x}{15}$$

$$50 = \frac{x}{15}$$

$$x = 50 \times 15$$

$$x = 750$$

$$\begin{aligned} \text{'B' blocks} &= \frac{7(x)}{15} \\ &= \frac{7(750)}{15} \end{aligned}$$

$$\text{'B' blocks} = 350$$

The number of 'B' blocks is 350

Q10) A train ----- arrive?

Solution:-

Given that:-

$$\text{Distance} = d = 42 \text{ km}$$

$$\text{Average speed} = s = 36 \text{ km/hr}$$

$$\text{Travel Time} = \text{Distance} / \text{speed}$$

$$= 42 / 36$$

$$\text{Travel Time} = 1 \frac{1}{3} \text{ hours}$$

Convert 1.17 hours to minutes.

$$= \frac{1.17}{60}$$

approx = 10 minutes.

Departure Time = 4 pm

Arrival Time = Adding 1 hour and 10 minutes
to the departure time =

$$= 4\text{h} + 1\text{h} + 10\text{min}$$

$$= 5\text{h} + 10\text{min}$$

$$= 5:10$$

The train arrives at 5:10 pm.