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Dos and Don'ts for General Science & Ability Paper

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G.S.A

Part II

Section - II:-

Here, 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 2026. You're gonna rock in sha Allah. :)

Q. 7.

Sol.

a) let two numbers x, y

$$\text{Given } x + y = 23 \rightarrow (1)$$

$$\text{Given } x \times y = 132 \rightarrow (2)$$

from eq. (1)

$$(3) \quad y = 23 - x \quad \text{put in eq. 2}$$

$$x \times y = 132$$

$$x(23 - x) = 132$$

$$23x - x^2 = 132$$

$$x^2 - 23x + 132 = 0$$

$$x^2 - 12x - 11x + 132 = 0$$

$$x(x - 12) - 11(x - 12) = 0$$

$$(x - 12)(x - 11) = 0$$

$$\text{either } x - 12 = 0 \quad \text{or } x - 11 = 0$$

$$x = 12$$

$$x = 11$$

$$y = 23 - 11$$

$$y = 12$$

from eq. (3)

$$y = 23 - 12$$

$$y = 11$$

So ans is

$$\{x, y\} = \{11, 12\} \text{ or } \{12, 11\}$$

b)

Soln. Given 40% of number "x" \neq 20% of 650 + 190

$$40\% \times x = 650 \times 20\% + 190$$

$$\frac{40}{100} \times x = \frac{650 \times 20}{100} + 190$$

$$\frac{4}{10} x = 130 + 190$$

$$\frac{4x}{10} = 320$$

$$4x = 3200$$

$$x = \frac{3200}{4}$$

$$\boxed{x = 800}$$

c)

Soln. Car Price : 70 million after 20% discount

Marked price ?

So, $0 = \text{SP} + \text{MP} - \text{SP} - \text{dx}$

"x" is marked price

 ~~$x \times 20\%$~~

$$x - x \times 20\% = 70 \text{ million}$$

$$x - \frac{20x}{100} = 70$$

$$x - \frac{x}{5} = 70$$

$$x \left(1 - \frac{1}{5}\right) = 70$$

$$x \left(\frac{5-1}{5}\right) = 70$$

$$\frac{4x}{5} = 70$$

$$\frac{4x}{5} = 70$$

$$4x = 350$$

$$x = \frac{350}{4}$$

$$x = 87.5$$

Market Price 87.5 million

d.)

$$x + x \times 10\% = y$$

y -

$$y - y \times 10\% = z$$

$$y = z = 7$$

Q.8:-

a)

$$\text{area} = 289 \text{ sq. ft}$$

$$\text{per foot} = 58$$

$$\text{One side} = \sqrt{289} = 17 \text{ ft}$$

$$4 \text{ sides} = 4 \times 17 = 68 \text{ ft}$$

$$52 \times 58 = 3016 \text{ sq. ft}$$

b)

$$\text{Avg salary of 24} = 15000$$

$$\frac{\text{Sum}}{24} = 15000 \rightarrow \text{eqn ①}$$

adding Manager's

$$\frac{\text{Sum} + x}{25} = 19000 \rightarrow \text{eqn ②}$$

$$\text{Sum} + x = 19000 \times 25$$

$$\text{Sum} = (19000 \times 25) - x \rightarrow \text{③}$$

From ①

$$\text{Sum} = 15000 \times 24 \rightarrow \text{④}$$

equating ③ & ④

$$15000 \times 24 = (19000 \times 25) - x$$

$$360000 = 475000 - x$$

$$x = 475000 - 360000$$

$$x = 115000$$

B

c.

Article original worth = x

~~$x +$~~

~~$x +$~~

d.

if daughter is Girl's Mother (Not specified)
then boy is brother

if daughter is not Girl's Mother
then Cousin

$$C. x + x \times y\% = 1920$$

$$x \times y\% = 1280$$

Equally

~~$$x + x \times y\% = x + x \times z\%$$~~

~~$$x \times y\% = x - x \times z\% \quad \text{at}$$~~

$$x + x \times y\% = 1920$$

$$y\% = \frac{1920 - x}{x}$$

$$y\% = \frac{1280 - x}{-x}$$

equating both

$$\frac{1280 - x}{-x} = \frac{1920 - x}{x}$$

$$1280 - x = \frac{1920 - x}{x} \times (-x)$$

$$1280 - x = -1920 + x$$

$$-2x = -1920 - 1280$$

$$-2x = -3200$$

$$x = 1600$$

Original Price

$$1600 \times 25\%$$

$$\frac{1600 \times 25}{100}$$

$$16 \times 25 = 400$$

$$\text{So, } 1600 + 400 = 2000$$

Article should be sold
at 2000 rupees.