

Dos and Don'ts for the General Science & Ability Paper

Hi there — you've prepared well! Remember, knowing the content is one thing, but presenting it in the paper exactly as required is another. Here are a few key points to keep in mind:

1. For a 5-mark part, aim to write at least 2 and at most 3 sides of the answer sheet. Often, a question has two or three parts, and the marks are divided accordingly — so address each part fairly.
2. Manage your time wisely — you have about 35 minutes per full question, which comes down to around 8 minutes for each 5-mark part. Stick to this to avoid rushing later.
3. Make your answers look scientific, not just theoretical. Use flowcharts and diagrams wherever they add clarity.
4. Neatness matters — keep your handwriting clean, avoid cutting or overwriting.
5. Mind your spelling and grammar — while GSA doesn't deduct marks for these, your expression leaves an impression.
6. In the ability portion, explain analytical ability questions in words. For a 5-mark part, show all steps and provide clear explanations.

Here's a brief key/sample of your Ability questions

Q.6

a) Candy ratio problem

Given: Packets in flavors Apple : Berry : Cherry : Date = 3 : 5 : 2 : 5.

Asked: If Apple candies exceed Date candies by 35, how many Berry candies are there?

Note (consistency check): The ratio shows Apple = 3 parts and Date = 5 parts, so Date is larger than Apple in the ratio. The statement "Apple candies exceed Date candies by 35" contradicts the ratio (Apple cannot exceed Date if ratio is 3:5). Two ways to handle this:

1. If the problem truly intends Apple - Date = 35, that's impossible with the given ratio (would require negative common factor).

2. Most likely the intended meaning is Date exceeds Apple by 35 (i.e. Date - Apple = 35). I will solve that reasonable interpretation.

Formula: Let common factor = k. Apple = 3k, Date = 5k.
So $5k - 3k = 35 \Rightarrow 2k = 35$.

Solution: $2k = 35 \Rightarrow k = 35 \div 2 = 17.5$.

Berry = $6k = 6 \times 17.5 = 105$.

Pay: _____

Q6.

Date: _____

b. Price = \$200
discount = 25%

$$\text{discount price} = 200 \times \left(\frac{100 - 25}{100} \right)$$

$$= 200 \times \frac{75}{100}$$

$$= \$150$$

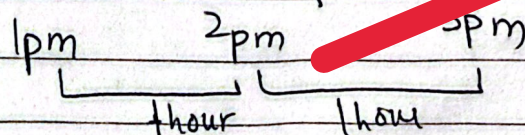
$$\text{Tax inclusive price} = 150 \times \left(\frac{100 + 6}{100} \right)$$

$$= 150 \times \frac{106}{100}$$

$$= \frac{1590}{10} = \$159$$

$$\text{Total amount paid} = \boxed{\$159}$$

$$\text{c. time} = \frac{d}{s} = \frac{36}{18} = 2 \text{ hours}$$



reach time = 3pm

d. Unscramble

~~i-statistics~~ i-STATISTICS
" - AMBLER

Q7.

Date: _____

c. (i) $2, 6, 18, 54, 162, 486$
 $\times 3 \quad \times 3 \quad \times 3 \quad \times 3 \quad \times 3$

= All numbers fit

(ii) $3, 5, 7, 11, 13, 15$
 $+2 \quad +2 \quad +4 \quad +2 \quad +2$

Answer = 15

b. Total Savings = 25000

Smallest share = $\frac{1}{\frac{15}{3}} \times \frac{5000}{25000}$

= 1666.7 Rs.

1666.66
 $3 \overline{) 5000}$
 $\underline{3}$
 20
 $\underline{18}$
 20
 $\underline{18}$
 20
 $\underline{18}$

a. Volume of Sphere = $\frac{4}{3} \pi r^3$

working

radius = $\frac{14}{2} = 7$

$7^3 = 7 \times 7 \times 7$

= $49 \times 7 = 343$

$4 \times 22 \times 343 = 30184$

= $\frac{4}{3} \times \left(\frac{22}{7} \times 7^3 \right)$

= $\frac{4}{3} \times \frac{22}{7} \times \frac{343}{1}$

= $\frac{30184}{3}$

= 10061.33 cm

Q7.

Day:

Date:

d. 5cm, 12cm, 13cm

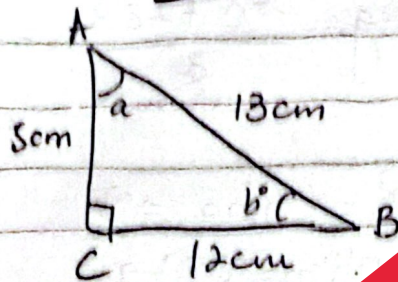
Pythagoras to check if right angle triangle.

$$(\text{Hyp})^2 = 5^2 + 12^2$$

$$13^2 = 25 + 144$$

$$\sqrt{13^2} = \sqrt{169}$$

$$13 = 13$$



$$\angle C = 90^\circ$$

$$\tan b = \frac{5}{12}$$

$$B = \tan^{-1}\left(\frac{5}{12}\right)$$

$$\tan A = \left(\frac{12}{5}\right)$$

$$A = \tan^{-1}\left(\frac{12}{5}\right)$$