

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.

Section-II

Q.No.4

(a) Given data

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.

Formula:-

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 : 6 : 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

DAY: _____

DATE: _____

$$V = \frac{88 \times 49}{3} \text{ cm}^3$$

$$V = \frac{4312}{3} \text{ cm}^3$$

$$V = 1437.3 \text{ cm}^3$$

Answer

$V = 1437.3 \text{ cm}^3$

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**Q No 7 (b)****Given data**

Total savings = 25000 Rs

Five friend's ratio = 1:2:3:4:5

**To find:-**

Smallest share = ?

**Solution:-**

$$\text{Sum of all parts} = 1+2+3+4+5$$
$$= 15$$

$$\text{Value of one part} = \frac{25000}{15}$$

$$= 1666.67 \text{ Rs}$$

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

DAY: \_\_\_\_\_

DATE: \_\_\_\_\_

Smallest share = 1666.67Rs

**Answer:-**

The smallest share is  
1666.67Rs.

**QNO7 (c)**

(i) Which number does not  
find?

2, 6, 18, 54, 162, 486

**Solution:-**

$$2 \times 3 = 6$$

$$6 \times 3 = 18$$

$$18 \times 3 = 54$$

$$54 \times 3 = 162$$

$$162 \times 3 = 486$$

All numbers fit the pattern.

**Answer:-**

All numbers in the series  
are correct. There is no error.

(ii) Complete series

3, 5, 7, 11, 13, —

**Solution:-**

3, 5, 7, 11, 13, 17

This is a sequence of



DAY: \_\_\_\_\_

DATE: \_\_\_\_\_

Prime number

Answer

The answer is 17.

Q No 7(d)

Given data

Sides of triangle = 5cm, 12cm, 13cm

To find:-

Formula:-

Pythagorean theorem

$$a^2 + b^2 = c^2$$

Solution:-

$$5^2 + 12^2 = 13^2$$

$$25 + 144 = 169$$

$$169 = 169$$

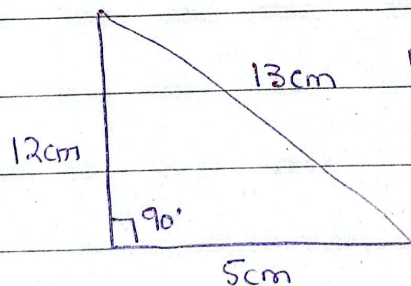
So, the triangle is a right angled triangle.

Let suppose:-

$$A = 5\text{cm}$$

$$B = 12\text{cm}$$

$$C = 13\text{cm}$$



Use law of Cosines to find other angles



To find A angle

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos A = \frac{12^2 + 13^2 - 5^2}{2 \times 12 \times 13}$$

$$\cos A = \frac{288}{312}$$

$$\cos A = 0.9231$$

$$A = \arccos(0.9231)$$

$$\boxed{A = 22.62^\circ}$$

To find angle B:

$$\cos B = \frac{a^2 + c^2 - b^2}{2ac}$$

$$\cos B = \frac{5^2 + 13^2 - 12^2}{2 \times 15 \times 13}$$

$$\cos B = 0.3846$$

$$B = \arccos(0.3846)$$

$$\boxed{B = 67.38^\circ}$$

**Answer:-**

The three angles of triangle are  $22.62^\circ$ ,  $67.38^\circ$  and  $90^\circ$

$$90^\circ + 22.62^\circ + 67.38^\circ = 180^\circ$$



DAY: \_\_\_\_\_

DATE: \_\_\_\_\_

**Q.6 (A)**

$$\text{Ratio of Apple to date} = \frac{3}{5}$$

$$\text{Difference between ratio part} = 5 - 3 = 2$$

$$\text{Apple candies exceed date} = 35$$

$$\text{Ratio of berry candies} = 6$$

**To find:-**

$$\text{No. of Berry Candies} = ?$$

**Solution**

$$\text{Volume of one part} = \frac{35}{2}$$

$$= 17.5$$

$$\text{Number of Berry candies} = 6 \times 17.5$$
$$= 105$$

**Answer**

The number of Berry candies is 105.

**Q.6 (B)**

**Given data**

$$\text{Camera price} = \$200$$

$$\text{Discount} = 25\%$$

$$\text{Discount} = \frac{25}{100} \times 200$$

$$= 50$$



DATE:

DATE:

$$\text{Price after discount} = 200 - 50 \\ = 150$$

$$\text{Tax on discounted price} = 6\% \\ = \frac{6}{100} \times 150 \\ = \$9$$

To find

Total amount paid = ?

**Solution**

Add tax to discounted price.

$$\text{Total amount paid} = 150 + 9 \\ = \$159$$

**Answer:-**

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

**Q.6(c)**

**Given data:-**

$$D = 36 \text{ km}$$

$$V = 18 \text{ km/hr}$$

$$\text{time} = 1 \text{ pm}$$

**To find:-**

Arrival time = ?



**Solution:-**

$$T = \frac{d}{v}$$

$$T = \frac{36}{18}$$

$$T = 2 \text{ hrs}$$

Find arrival time

$$\begin{aligned} \text{Arrival time} &= 1 \text{ pm} + 2 \text{ hrs} \\ &= 3 \text{ pm} \end{aligned}$$

**Answer:-**

The bicycle reaches at  
3 pm.

**Q.6(d)**

(i) STSTAICITS

**Answer:-**

STATISTICS

(ii) LGEBMAR

**Answer:-**

ALGEBRA