

Hi there — you're 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 — allocate about 35 minutes per 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 : 6 : 2 : 5

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

Note: (Consistency check) The ratio shows Apple = 3 parts and Date = 2 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 = $6k = 6 \times 17.5 = 105$.

Answer: 105 Berry candies.

(If you intended the other wording exactly as written, the ratio is inconsistent with the ratio.)

b) Camera discount + tax

Given: Original price = \$200. Discount = 25% off. After discount, 6% tax applied.

Asked: Total amount paid.

Formula / Steps:

Discount amount = 25% of 200 = $0.25 \times 200 = 50$.

Sale price = 200 - discount.

Tax = 6% of sale price.

Total = sale price + tax.

Solution (digit by digit):

Discount = $200 \times 0.25 = 50$.

Sale price = $200 - 50 = 150$.

Tax = $150 \times 0.06 = 9$.

Total paid = $150 + 9 = 159$.

Answer: 159.00

c) Bicycle travel time

Given: Distance = 36 km, speed = 18 km/hr, start time = 1:00 PM.

Asked: Arrival time.

Formula: Time = Distance ÷ Speed

Solution: Time = $36 \div 18 = 2$ hours. Start 1:00 PM + 2 hours = 3:00 PM.

Answer: 3:00 PM

d) Unscramble math terms

i. STATISTICS

ii. GAMBLER

Q7.

Given:

- Diameter (d) = 14 cm

- Radius (r) = $d/2 = 14/2 = 7$ cm

- $\pi = 22/7$

Asked: volume of sphere

Formula:

Volume = $(4/3)\pi r^3$

Now, let's plug in the values.

Volume = $(4/3) \times (22/7) \times (7)^3$

= $(4/3) \times 22 \times 7 \times 7$

= 1437.33 cm³

Answer:

The volume of the sphere is approximately 1437.33 cm³

(b) Five friends' savings (total Rs. 25,000; ratio 1:2:3:4:5)

Given: Total = Rs. 25,000. Ratio = 1 : 2 : 3 : 4 : 5.

Asked: Smallest share (the "1" part).

Formula: Sum of ratio parts = 1+2+3+4+5 = 15. Smallest = $(1/15) \times \text{total}$

Berry Q#6A

Apple : Berry : Cherry : Date
3 : 6 : 2 : 5

Apple = Berry + 35

Berry : Apple

3 + 6 = 9

(Berry + Berry + 35) x 3 = Berry + 35

2Berry + 35 = Berry + 35

2Berry + 35 = 3Berry + 105

3Berry - 2Berry = 105 - 35

Berry = 70

Q6 (b)

Date

Price = 200

Discount = 25%

Tax = 6%

Discounted Price = $200 \times 25 = 50$

Discounted Price = $200 - 50 = 150$

105
35
70

$2 \frac{18}{54}$

Date:

$$\text{Tax} = 6\%$$

$$\frac{3180 \times 63}{100} = 9$$

$$\text{Amount paid} = 150 - 9$$

$= 141$

Q6. (C)

Given

$$\text{Speed} = 18 \text{ km/h}$$

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

$$t = 1 \text{ PM}$$

Solution

$$18 \text{ km/h} = \frac{36}{t}$$

$$18t = 36$$

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

$$t = 2$$

Time of reaching 3 PM

Q6

(1) Statistics

(1) Alg

$$\begin{array}{r} 1 \\ 2 \\ 2 \\ 2 \\ 9 \\ 11 \\ 12 \\ 13 \\ 3 \end{array}$$

$$3 \mid 4312$$

$$1437.3$$

$$4312$$

$$352 \times$$

$$173$$

$$49$$

$$88$$

$$7$$

$$1$$

$$42$$

$$463$$

$$38$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

$$149$$

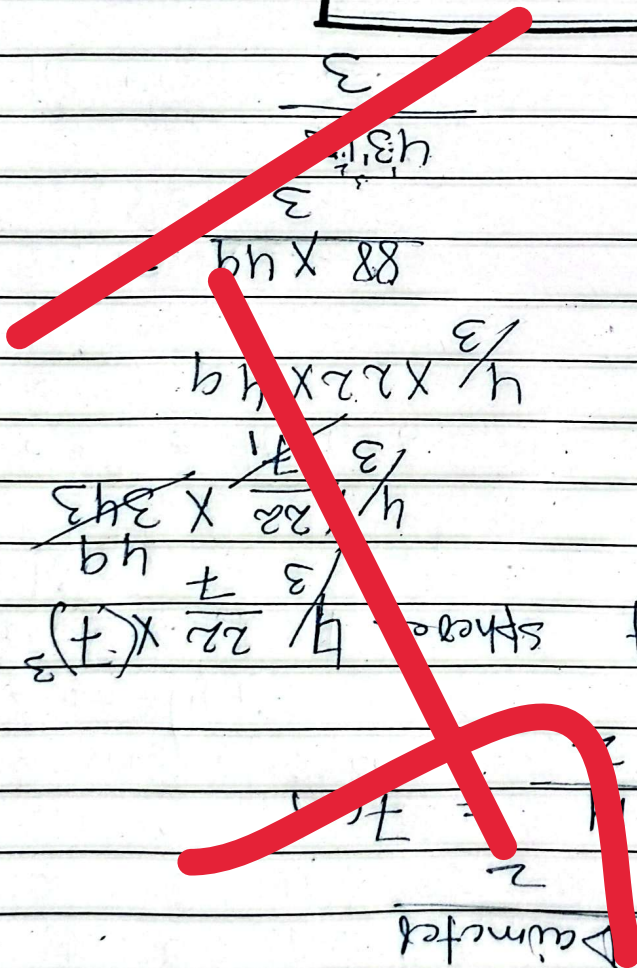
$$149$$

$$149$$

$$149$$

$$149$$

$$\text{Volume} = 1437.3$$



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

radius = r

radius = r

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

Q#7(A)

Date:

$$\frac{4}{3} \pi r^3$$

7B

Data

five friends = \$ let = A, B, C, D, E

A: B: C: D: E

1: 2: 3: 4: 5

Total Savings = 25000

$$1+2+3+4+5 = 15$$

$$A = \frac{25000}{15} \times 1$$

$$153$$

$$\frac{5000}{3} = 1666.6$$

$$B = \frac{25000}{15} \times 2$$

$$\frac{10000}{3} = 3333.3$$

$$C = \frac{25000}{15} \times 3 = 5000$$

$$D = \frac{25000}{15} \times 4 = 6666.6$$

$$\frac{20000}{3}$$

MAZ

$$D = \frac{28000 \times 81}{183}$$

$$D = 8333.3$$

So the smallest share is 1666.6

$$\begin{array}{r} 8333.3 \\ 3 \overline{) 25000} \\ \underline{24} \\ 10 \end{array}$$

7c

$$2 \times 3 = 6$$

$$6 \times 3 = 18$$

$$18 \times 3 = 54$$

$$54 \times 3 = 162$$

So 486 does not fit

11

3, 5, 7, 11, 13 = Series of prime numbers

So next is 17

3, 5, 7, 11, 13, 17