

SECTION - II

Q.4(a) Sum of 3 consecutive prime numbers is 159, find the numbers.

Do's and Don'ts for General Science & Ability Paper

The numbers are 47, 53 and 59.
Hi there, 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.

Radius = 6 cm

Perimeter = $2\pi r$

$$= 2 \times 3.14 \times 6$$

$$= 37.68 \text{ cm}$$

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 important. 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.

Putting values

Good luck for CSS 2026. You're gonna rock in sha Allah. :)

Now Solving

$$x - 3 + x + 2 + 3 = 2 + x + 3$$

$$x + y + z = 8 + 9$$

$$x + 50 = 90$$

$$\cancel{x = 90 - 50}$$

$$\cancel{x = 40}$$

So, age of man is 40 year now

(d) The sum of 3 numbers is 98
if ratio of first to second is 2:3
and second to third is 5:8, then
the second number is?

So, let the numbers are

x , y and z

According to Condition

$$x + y + z = 98 \quad \text{--- (1)}$$

$$\frac{x}{y} = \frac{2}{3} \Rightarrow x = \frac{2y}{3}$$

$$\frac{y}{z} = \frac{5}{8} \Rightarrow z = \frac{8y}{5}$$

Putting values of x and z in
eq (1)

$$\frac{2x}{3} + y + \frac{8z}{5} = 98$$

$$\frac{10y + 15y + 24y}{15} = 98$$

$$49y = 98 \times 15$$

$$y = \frac{1470}{49} = 30$$

$$y = 30$$

So, the second number is 30

Q7-(a) The sum of two numbers is 23

and product is 132. Find numbers

Sol:- Let x and y are the numbers

According to Condition

$$x + y = 23 \quad \text{--- (1)}$$

$$xy = 132 \quad \text{--- (2)}$$

From eq. - (1)

$$x + y = 23$$

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

$$(23 - y)y = 132$$

$$23y - y^2 = 132$$

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

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

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

$$(y - 11) = 0 \quad (y - 12) = 0$$

$$y = 11$$

$$y = 12$$

put $y = 11$ in eq (1)

$$x + 11 = 23$$

$$x = 23 - 11$$

$$x = 12$$

So the numbers are 11 and 12

(b) 40% of a number is more than 20% of 650 by 190
let n be the number

$$0.4 \times n = 0.2 \times 650 + 190$$

~~$$0.4n = \text{Multiply by } 10 \text{ b/s}$$~~

$$4n = 2 \times 650 + 1900$$

$$4n = 1300 + 1900$$

$$4n = \cancel{1490} \quad \cancel{3200} \quad 800$$

$$n = \frac{\cancel{1490} - \cancel{745}}{4} \quad \frac{3200}{4} = 800$$

$$\boxed{n = 800}$$

(c) A man buys a car for Rs 70 million after getting discount of 20%. What was the marked price?

let marked price = x

According to Condition,

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

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

~~$$\frac{100x - 20}{100} = 70 \text{ million}$$~~

~~$$100x - 20 = 7000 \text{ million}$$~~

$$100x = 7020 \text{ million}$$

$$x = \frac{7020}{100} \text{ million}$$

$$x = 70.2 \text{ million PKR}$$

MTWTFSS

Date: _____

(d) A number is increased by 10%
then decrease by 10%. The net
change in the number is?

let number is 100

$$10\% \text{ increase} = 100 + \frac{10}{100} \times 100$$

$$10\% \text{ increase} = 110$$

Now 10% decrease of 110

$$= 110 - \frac{10}{100} \times 110$$

$$\text{After 10\% decrease} = 99$$

so net change is 1%