

General Science and Ability

Dos and Don'ts for General Science & Ability Paper Section-II

Q#6

Give:

Enrollments in Tu 2022 = 850

Enrollments in Jan 2023 = 1120

To find:

increase in percentage = ?

SOL:

Difference between = $1120 - 850$

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 2025. You're gonna rock in sha Allah. :)

Q#6(b) let the age of son = x
and age of father (according
to given condition) = $5x$

Now, according to given situation

$$x^2 + (5x)^2 = 114$$

$$x^2 + 25x^2 = 114$$

$$26x^2 = 114$$

$$x^2 = \frac{114}{26}$$

$$\sqrt{x^2} = \sqrt{\frac{114}{26}}$$

$$x = \sqrt{\frac{57}{13}}$$

$$x = 4.38$$

$$x = 2.09$$

So, the age of son two years
ago was 2.09.

Hence, the present age of
son = $2.09 + 2$
= 4.09 years.

Present age of son = 4.09 years

Q#6(c) let no. of hens = x
& no. of cows = y
Then, according to given situation

$$x + y = 48 \quad \text{--- (1)}$$

$$2x + 4y = 140 \quad \text{--- (2)}$$

Now, (1) \Rightarrow $x = 48 - y$

using this in eq (2)

$$2(48 - y) + 4y = 140$$

$$96 - 2y + 4y = 140$$

$$2y = 140 - 96$$

$$2y = 44$$

$$y = 22$$

To find no. of hens use
 $y = 22$ in eq (1)

$$x + 22 = 48$$

$$x = 48 - 22$$

$$x = 26$$

26 hens are present.

Q#6(d) Given: Speed in
first half = 40km/h
Speed in 2nd half = 60km/h

To find:

Average speed of
the journey = ?

SOL: By using formula for the
average

$$\text{Average} = \frac{\text{Sum of values}}{\text{no. of values}}$$

$$= \frac{40\text{km/h} + 60\text{km/h}}{2}$$

$$= \frac{100\text{km/h}}{2} = 50\text{km/h}$$

So, the average speed of the
journey is 50km/h.

Q#7(a). A number is divided by 6 and then 50 is added. If the total is 60, what is that number?

Sol

Given: let the number be x
then, according to given statement

$$\frac{x}{6} + 50 = 60$$

$$\frac{x + 300}{6} = 60$$

$$x + 300 = 60 \times 6$$

$$x + 300 = 360$$

$$x = 360 - 300$$

$$x = 60$$

So, the required number is 60.

Q#7(b). Find the odd one out:

8, 16, 24, 34, 40, 48.

SOL: By looking at the pattern which is the addition of 8 to previous number, 34 is the odd one because when

$24 + 8 = 32$
not 34. So 34 is the odd one.

Q#7(c). A tower is 15m tall. If I'm standing 20m from the base of the tower. What is my aerial distance from the top of the tower?

SOL: From the figure, c is unknown

Now, by using pythagoras theorem

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

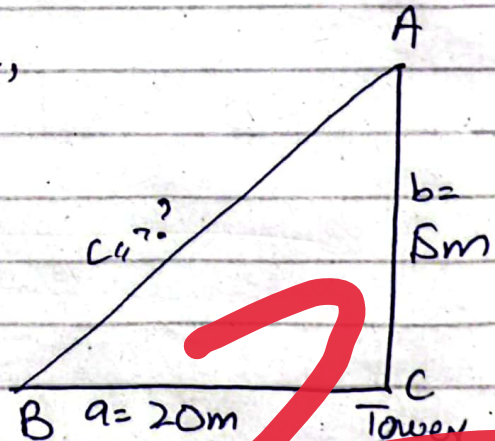
$$c^2 = (15)^2 + (20)^2$$

$$c^2 = 225 + 400$$

$$c^2 = 625$$

$$\sqrt{c^2} = \sqrt{625}$$

$$c = 25m$$



Q#7(d) Given: Tariff for odd date = 1000
Tariff for even date = 2000
Starting date of stay = 5th of the month.

Amount paid = 30000

To find:

Total number of days of stay = ?

Avoid cutting

Sol: According to given condition, let x be for odd days & y be the even days.

$$\text{So, } 1000x + 2000y = 30000$$

and Total days = $x + y$.

~~To solve this question, hit & trial method is used as:~~

~~let $x = 9$ & $y =$~~

By following the pattern of alternate days, it is observed that he stayed there for 20 days starting from 5th of the month till ~~5th~~ 24th being his last day of stay.