

GSA, TEST #4.QUESTION #1:

(a) Find the missing term.

1. 2, 3, 6, 4, 5, 20, —, 3, 18.

(Sol)

$$\begin{array}{ccccccc} \overset{x}{\downarrow} & & \overset{x}{\downarrow} & & \overset{x}{\downarrow} & & \\ 2, & 3, & 6, & 4, & 5, & 20, & \underline{6}, & 3, & 18. \end{array}$$

$$\begin{array}{ccc} \swarrow & \searrow & \swarrow \\ 1 & 3 & -2 \end{array}$$

The missing number is 6.

(b) 1, 3, 9, 15, 25 — 49.

(Sol)

$$1, 3, 9, 15, 25 \quad \underline{35} \quad 49.$$

$$\begin{array}{ccccccc} \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow & \swarrow \\ 2 & 6 & 10 & 10 & 16 & 14 & \end{array}$$

$$\begin{array}{cccc} \swarrow & \searrow & \swarrow & \searrow \\ 4 & 0 & 4 & 0 \end{array}$$

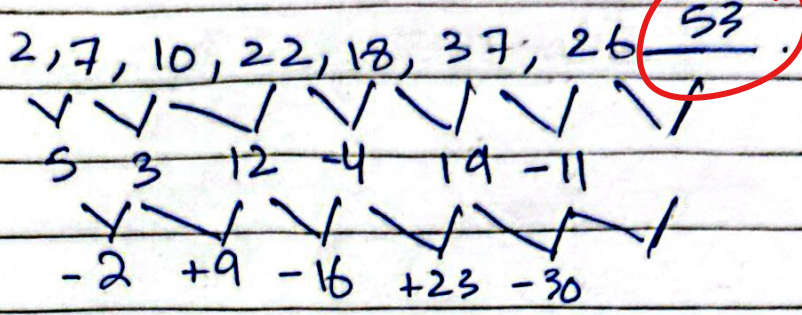
The missing number is 35.

(c) 2, 7, 10, 22, 18, 37, 26 —

(Sol)

$$2, 7, 10, 22, 18, 37, 26 \leftarrow$$

$$\begin{array}{ccccccc} \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow & \swarrow \\ 5 & 3 & 12 & 4 & 19 & 11 & \end{array}$$



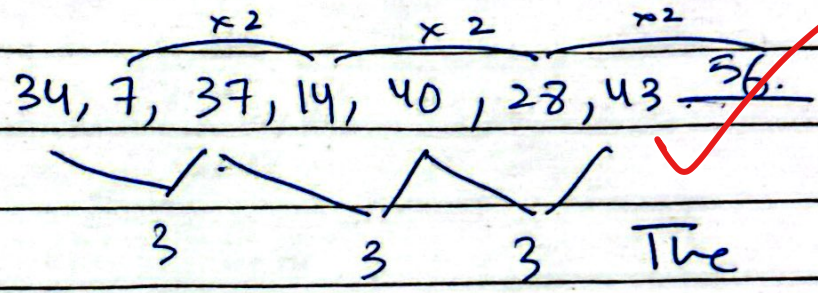
X

(d)

(Sol)

(4) 34, 7, 37, 14, 40, 28, 43

(Sol)

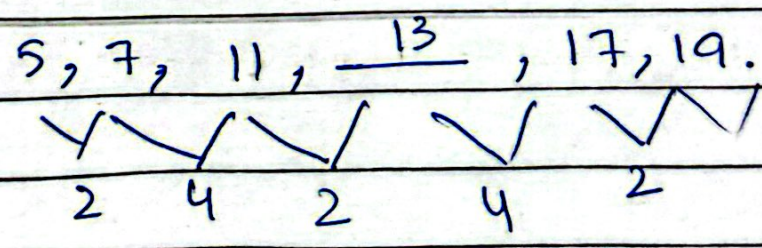


The missing number is 56.

(5) 5, 7, 11, —, 17, 19.

Q3.

(Sol)



The missing number is 13.

(Sol)

(d) The greater of 2 nos . . .  
. . . nos?

(Sol)

$$2x + x = 96.$$

let the no be  $x$

let '2x' be the no twice

$$\frac{2x}{3} = \frac{96}{3}$$

$$x = 32, 2(32) = 64$$

The smaller no is  $(32)$ ,  
 while the bigger no is  $(64)$ .

Q3. QUESTION #3.

Three partners share  
 the . . . investments.

(Sol)

3 partners : A, B, C.

ratio of profit = 5 : 7 : 8 = 20

partnered for A = 14 months.

B = 8 months.

C = 7 months.

Ratio of (A's) investment.

$$= \frac{5x \times 14}{20} = \frac{70x}{20} = 3.5x$$

Ratios of (B's) invest.

$$= \frac{7x \times 8}{20} = \frac{56x}{20} = (2.8)$$

Ratios of (C's) invest.

$$= \frac{8x \times 7}{20} = \frac{56x}{20} = (2.8)$$

The ratios of their investments are;

$$3.5 : 2.8 : 2.8$$

(B) The average ... 91.

(Sol): Let the odd number be  $(2n+1)$ .

Second odd number be  $(2n+3)$

3rd " " "  $(2n+5)$ .

$$2n+1 + 2n+3 + 2n+5 = 91$$

$$6n + 9 = 273$$

$$\frac{6n}{6} = \frac{264}{6} \quad (n=44)$$

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

put value of  $n$  in  $2n+1$ ,  
 $2n+3$ ,  $2n+5$ .

$$2(44)+1 = 89.$$

$$2(44)+3 = 91$$

$$2(44)+5 = 93.$$

The three consecutive terms  
are;

89, 91, 93.