

GSA, TEST #4.QUESTION #1:

(a) Find the missing term.

1. 2, 3, 6, 4, 5, 20, —, 3, 18.

(Sol) $\overset{x}{\underbrace{2, 3, 6, 4, 5, 20, \underline{6}, 3, 18}}$

$\swarrow \quad \searrow \quad \swarrow \quad \searrow$
 1 3 -2

The missing number is 6.

(b) 1, 3, 9, 15, 25 — 49.

(Sol) 1, 3, 9, 15, 25, 35, 49.

$\swarrow \quad \searrow \quad \swarrow \quad \searrow \quad \swarrow \quad \searrow \quad \swarrow \quad \searrow$
 2 6 10 10 10+4=14

$\swarrow \quad \searrow \quad \swarrow \quad \searrow$
 4 0 4 0

The missing number is 35.

(c) 2, 7, 10, 22, 18, 37, 26 —

(Sol) 2, 7, 10, 22, 18, 37, 26 ←

$\swarrow \quad \searrow \quad \swarrow \quad \searrow \quad \swarrow \quad \searrow \quad \swarrow \quad \searrow$
 5 3 12 -4 19 -11

$\swarrow \quad \searrow \quad \swarrow \quad \searrow$
 +9 12 -4 19

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

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

3

$$6n + 9 = 273$$

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

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 \leftarrow nos
are;

89, 91, 93.