

GISA Test 2

Question no. 1:

A) Missing term

a) 3, 9, 21, 39, 63 93

$$\begin{array}{ccccccc} 3 & , & 9 & , & 21 & , & 39 & , & 63 & & 93 \\ \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \\ +6 & & +12 & & +18 & & 24 & & +30 & & \end{array}$$

b) 1, 5, 11, 21, 37 61

$$\begin{array}{ccccccc} 1 & , & 5 & , & 11 & , & 21 & , & 37 & & 61 \\ \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \\ +4 & & +6 & & +10 & & +16 & & +24 & & \\ \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \\ +2 & & +4 & & +6 & & +8 & & & & \end{array}$$

c) 5, 16, 29, 46, 65, 88 113

$$\begin{array}{ccccccc} 5 & , & 16 & , & 29 & , & 46 & , & 65 & , & 88 & & 113 \\ \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \\ +11 & & +13 & & +17 & & +19 & & +23 & & +25 & & \\ \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \\ +2 & & +4 & & +2 & & +4 & & +2 & & & & \end{array}$$

d) 1, 3, 4, 9, 27, 36, 243 729 972

$$\begin{array}{ccccccc} * & & * & & + \\ \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} & & \underbrace{\quad} \\ 1 & , & 3 & , & 4 & , & 9 & , & 27 & , & 36 & , & 243 & , & 729 & , & 972 \end{array}$$

B)

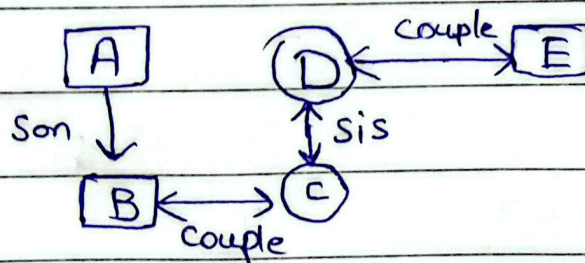
11 5 14 23 15 15 4
K E N W O O D
R R G W I C L
+7 +13 +19 +0 +20 +14 +8

1 2 3 4 5 6 7
A B C D E F G
8 9 10 11 12 13 14
H I J K L M N
15 16 17 18 19 20 21
O P Q R S T U
22 23 24 25 26
V W X Y Z.

16 1 14 1 19 15 14 9 3
P A N A S O N I C
W N G A M C V P P
+7 +13 +19 +0 +20 +14 +8 +7 +13

D)

Let Suppose

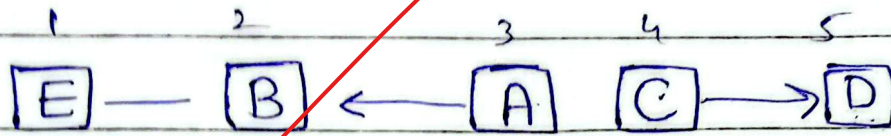
Male = $\square$ Female = $\bigcirc$ 

According to Statement
E is the brother of B.

Both E and B are A's son.

D is the wife of E. So, E
is A's daughter in-law.

c)



A is sitting in the middle seat / on the 3rd position.

Question no. 2

A)

Let

$$\text{Rashid age} = x$$

$$\text{Father age} = 3x + x = 4x$$

$$\text{No. of year} = 8$$

$$\text{Rashid} = x + 8$$

$$\text{Father} = 4x + 8$$

As per statement father would be two and a half times of Rashid's age

$$4x + 8 = 2.5(x + 8)$$

$$4x + 8 = 2.5x + 20$$

$$4x - 2.5x = 20 - 8$$

$$1.5x = 12$$

$$x = \frac{12}{1.5}$$

$$x = \frac{12}{\frac{15}{10}}$$

$$x = \frac{12}{15} \times 10$$

$$x = \frac{40}{5}$$

$$x = 8$$

Rashid age = 8 years

$$\text{Father age} = 4x \\ = 4(8)$$

$$= 32 \text{ years}$$

Now, after further 8 years

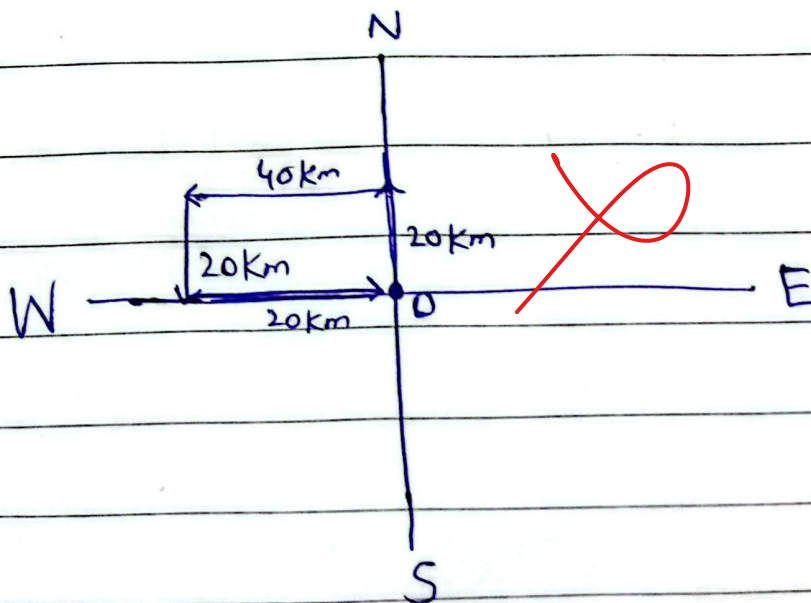
$$\text{Rashid age} = 8 + 16 \\ = 24 \text{ years}$$

$$\text{Father age} = 32 + 16 \\ = 48 \text{ years}$$

$$\frac{48}{24} = 2$$

Father age is 2 times more than Rashid's age.

B)



i)

Start at 0

Walk 20 km North (0, 20)

Turn left and walk 40 km

(0, -40, 20)

Turn left and walk 20 km

(-40, 20, -20)

Turn left and walk 20 km

(-40, 0, 20)

(-20, 0)

$$\text{Distance} = \sqrt{(-20)^2 + (0)^2}$$

$$= \sqrt{400 + 0}$$

$$= \sqrt{400}$$

$$= 20 \text{ km}$$

He is 20 km away from
Starting position.

ii)

$$\text{Total path travelled} = 20 + 40 + 20 + 20$$

$$= 100 \text{ km}$$

iii)

He is moving towards East

iv)

He is to the west of
his initial point

~~Q~~ c)

Let decode the question
Step by step

$$\text{No. of men} = x$$

As No. of women is half
of the men, Then

$$\text{No. of women} = \frac{x}{2}$$

In Other city 10 men leave
the bus

$$\text{Men} = x - 10$$

5 women enter

$$\text{women} = \frac{x}{2} + 5$$

No. of men and women
are equal

$$x - 10 = \frac{x}{2} + 5$$

$$2(x - 10) = 1\left(\frac{x}{2} + 5\right)$$

$$2x - 20 = x + 10$$

$$2x - x = 10 + 20$$

$$x = 30$$

$$\text{No. of men} = 30$$

$$\text{No. of women} = \frac{x}{2}$$

$$= \frac{30}{2}$$

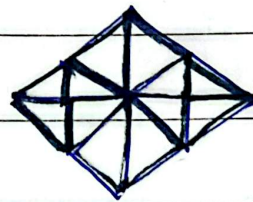
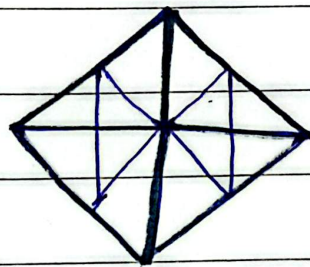
$$= 15$$

Total no. of passengers

$$= 30 + 15$$

$$= 45$$

D)



large = 4
Triangles

Small triangles = 12

$$\text{Total triangles} = 12 + 4$$
$$= 16$$