

Question #2

(B)

Solution

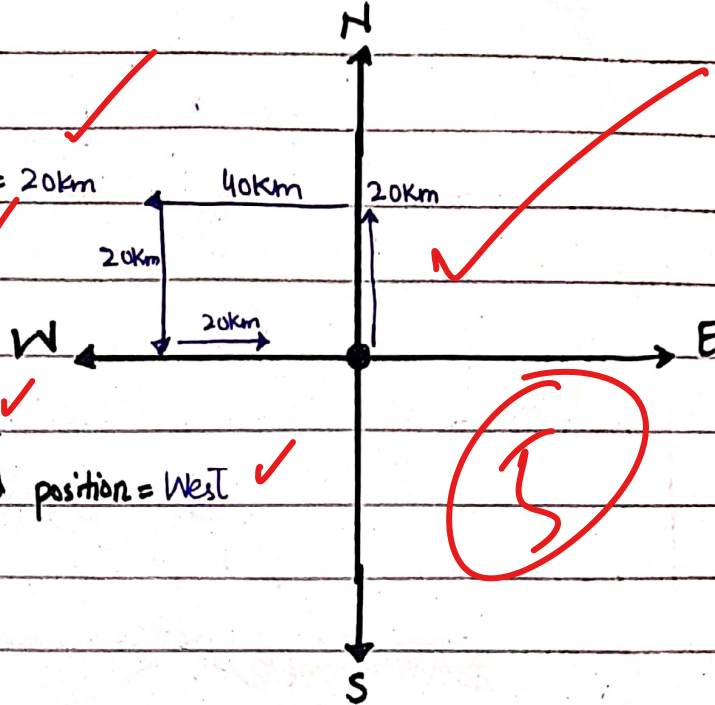
(i) Far from initial point = 20km

(ii) Total path = 100km

(iii) Direction moving

= East

(iv) Direction from initial position = West



(C)

Given data:

Bus start = City X

Passenger in bus in city X = women half of men

City Y = 10 men leave and 5 women enter

City Y passengers = Men and women equal

To find :

Passenger in the beginning = ?

Solution

Let the men in bus in city X = 30

women 4 4 4 = 15

City Y = 30 - 10 = 20

City Y = 15 + 5 = 20

Both men and women are equal

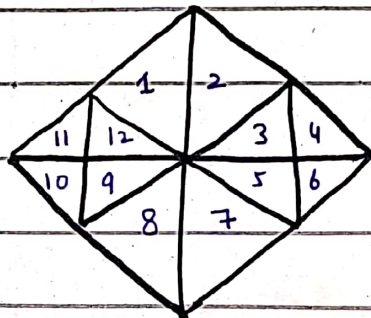
By adding both men and women

$$\text{passengers in city X} = 30 + 15 \\ = 45 \text{ passengers.}$$

So, in the beginning, 45 passengers enter in the bus.

(D)

Find triangles



28
Total

Thus, there are total 12 triangles in the given shape

Question #1

(A)

Find missing term

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

The difference in each term is +6

$$6 + 6 = 12$$

$$12 + 6 = 18$$

$$18 + 6 = 24$$

$$24 + 6 = 30$$

$$63 + 30 = 93$$

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

The difference in terms is 4, 6, 10, 16, with addition of even numbers in sequence

$$4 + 2 = 6$$

$$6 + 4 = 10$$

$$10 + 6 = 16$$

$$16 + 8 = 24$$

$$37 + 24 = 61$$

c) 5, 16, 29, 46, 65, 88, 117

The difference in these terms are of

consecutive prime numbers = 11, 13, 17, 19, 23, 29

$$\text{So, } 88 + 29 = 117$$

(C)

Given data

A sitting next to B

C sitting next to D

D is not sitting with E

E is on the left side of Bench

C is on second position from right

A is to the right of B and E

A and C sitting together

To find:

Position of A = ?

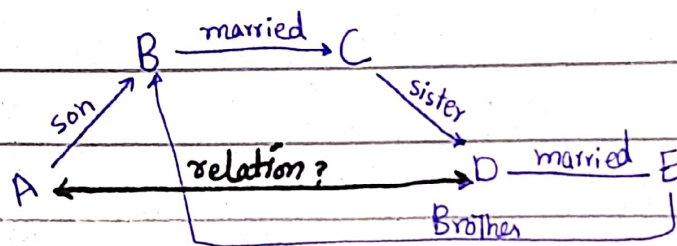
Solution

As per the given data, the sitting arrangement is as below.

Left E B A C D Right

According to this sitting arrangement, the position of A is Third.

Given data



To find

D relation with A

Solution

As per the given data,

D is the daughter-in-law of A