

Date: _____

General Ability

MTWTFSS

Question no: 02

Part(a):

Given data:

Father's age three times more than the age of his son Rashid

let the son's age = x

Father's age is three times of his son

so, $x + 3x = 4x$

After 8 yrs, Father's age is two and a half times of Rashid's age

Father :	Son
$\frac{2}{5}(4x+8)$	$x+8$

$$4x+8 = \frac{5}{2}(x+8)$$

$$2(4x+8) = 5(x+8)$$

$$8x+16 = 5x+40$$

$$8x-5x = 40-16$$

$$3x = 24$$

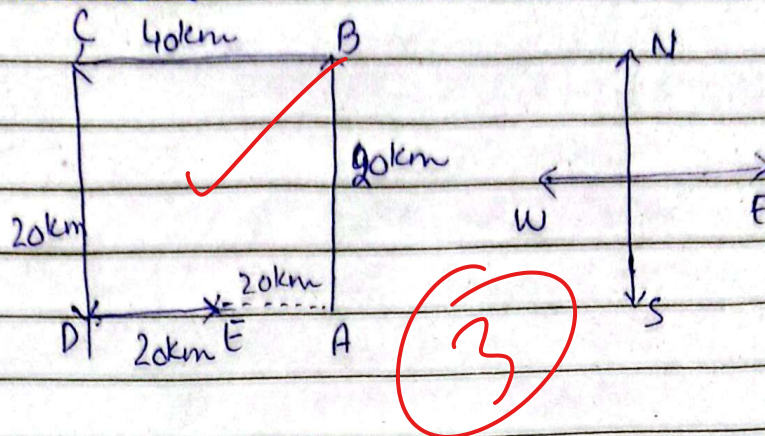
$$x = \frac{24}{3} \Rightarrow 8$$

$$\text{Son's age} = x+8 = 8+8 = 16\text{yrs}$$

$$\text{Father's age} = 4x+8$$

$$= 4(8+8)$$

$$= 40\text{yrs}$$

Part (b):

i) far from starting point
 $= 40\text{km} - 20\text{km}$
 $= 20\text{km}$

ii) He is moving in East direction

iii) From his initial point, he was in South direction ~~X~~

Part (c):

In city x,

let the nbr of women be $= x$
 and the number of men $= 2x$

In city y,

Number of women $= x + 5$

Number of men $= 2x - 10$

So,

$$2x - 10 = x + 5$$

$$2x - x = 10 + 5$$

$$x = 15$$

Number of women $= 15$

Number of men $= 2(15) = 30$

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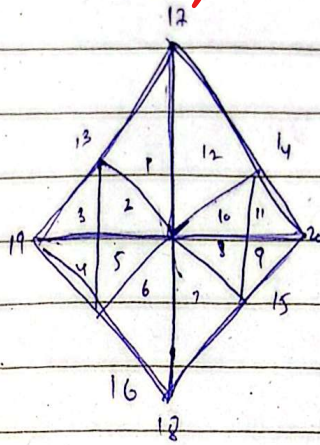
M T W T F S

$$\text{total number of passenger} = \text{Nbr of men} + \text{Nbr of women} \\ = 15 + 30$$

Hence, total number of passenger = 45

Part (d) :

total Number of triangle in the figure is 20. ~~X~~



28
Total
2

Question no: 01

Part (a):

(i) 3, 9, 21, 39, 63, —
 ↑ ↑ ↑ ↑
 +6 +12 +18 +24

Pattern in this series is;

The difference of 6, 12, 18, 24 is multiples of 6, each time the next digit increased by 6, so the next difference should be;

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$$24 + 6 = 30$$

Adding 30 in 63, its results will be

$$63 + 30 = 93$$

Missing number of the series is 93.

ii) 1, 5, 11, 21, 37, _____

The pattern in this difference is:

$$5 - 1 = 4 \quad \downarrow +2$$

$$11 - 5 = 6 \quad \downarrow +4$$

$$21 - 11 = 10 \quad \downarrow +6$$

$$37 - 21 = 16 \quad \downarrow +8$$

$$? \quad \downarrow +8$$

The next to be added according to the above difference pattern will be 24.

$$37 + 24 = 61$$

Missing number of the series is 61.

iii) 5, 16, 29, 46, 65, 88, _____

Pattern in this difference is as follows:

$$\begin{array}{ccccccc} 5 & 16 & 29 & 46 & 65 & 88 & \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & & \\ +11 & +13 & +17 & +19 & +23 & & \end{array}$$

The difference of the series follows adding consecutive prime numbers of

11, 13, 17, 19, 23.

Next prime number after 23 is 29.

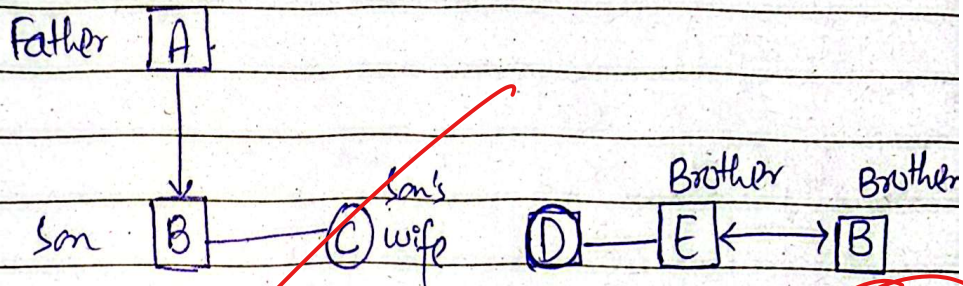
$$88 + 29 = 117$$

Missing number of the series is 117.

iv) 1, 3, 4, 9, 27, 36, 243, _____, 972

$$1 \times 3 = 3, 3 \times 3 = 9, 9 \times 3 = 27, 27 \times 3 = 81, 81 \times 3 = 243, 243 \times 3 = 729, 729 \times 3 = 2187$$

Missing number of the series is 324.

Part (d):

As both C and D are sisters,
married to B and E respectively, both
are sons of A.

So, D will be the daughter-in-law of A.

Part (c):

Given data;

E sitting on the left end of bench;
and C is on the second position from the
right;

left

Right

יב

C

1

C is setting next to D

E

C D

A is setting ~~to the~~ with the C.

E B A C D

~~↑~~

so left position will be occupied by B.

~~Therefore,~~

Final seating arrangement from left to right is **EBACD**.

Part (b) :

KENWOOD

+7 ↓ ↓ ↓ ↓ ↓ ↓

↓ G ↓ I ↓

R R⁻⁷ W 0 (-4) C ↓ (-8)

+13 (-12) L

In the above sequence, K is written seven step forward (R), E is thirteen steps forward (R), N is seven step backward (G), O is six step backward (I), O is twelve step backward (C), and D is eight step backward (L).

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M T W T F S

P A N A S O N I C

Following the above-mentioned pattern,
the coded words will be

P A N A S O N I C
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
W N G A -6 -12 (-8) ↓ ↓
M C F I C

it will be,

WNGAMCFIC.