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BATCH: 401

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Good

Question 1

(B) In a code language, KENWOOD is written as RRGWICL then in the same language the word PANASONIC is written as?

GIVEN DATA:

KENWOOD = RRGWICL

REQUIRED DATA:

PANASONIC = ?

SOLUTION:

K E N W O O D

7↓ 13↓ 7↓ 0↓ 6↓ 12↓ 8↓

R R G W I C L

The only possible pattern that can be there is to follow the above pattern of difference.

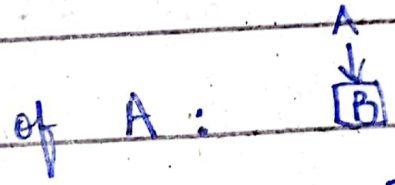
P A N A S O N I C

7↓ 13↓ 7↓ 0↓ 6↓ 12↓ 8↓ 7↓ 13↓

W M G A Y C V P P

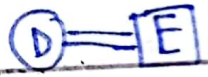
D) A's son B is married with C whose sister D is married to E the brother of B. How D is related to A?

GIVED DATA:

B is son of A : 

B is married with C : 

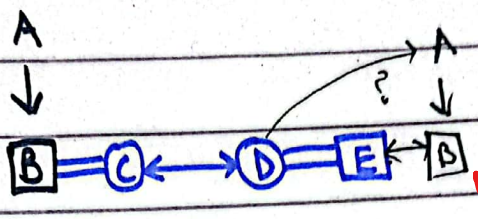
D is sister of of C : 

D is married to E : 

E is brother of B : 

Solution:

Flow chart of family will be:



As D is wife of B's brother. So, E is A's son. D is daughter in law of A

Result:-

D is daughter in law of A.

Q C) A, B, C, D and E ..... A is sitting?

Given Data:

Five people A, B, C, D and E are sitting on a bench.

→ A is next to B

→ C is next to D

→ D is not sitting with E

→ E is on left

→ C is on second position from right

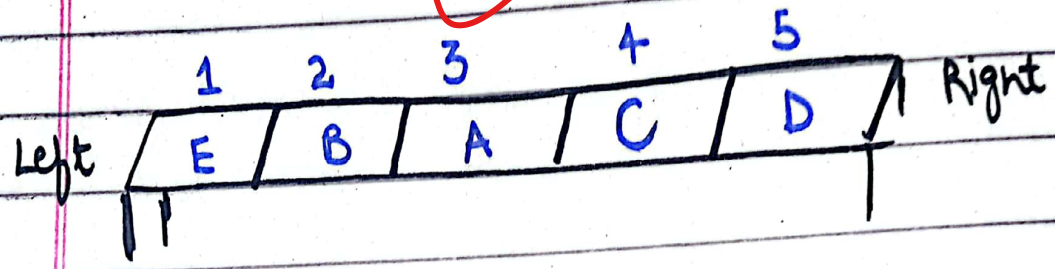
→ A is to right of B and E

→ A and C are sitting together

Required Data:

Position of A ?

Solution:



→ Position of C is fixed at point 4.

→ As A is with C but right to B and E, so, let position of A be 3.

→ E is on left and B is with A, so, B will be on 2 and E at 1.

→ D is is left with position 5.

Result:-

The position of A will be in the mid of B and C.

A) Find the missing term?

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

Solution:

3, 9, 21, 39, 63

Dividing all by 3 we get:

1, 3, 7, 13, 21

If we subtract each next number from previous we get,

2, 4, 6, 8,

So, next number must be divisible by 3 and 80 more than 21

whose answer by diving with 3,

21 + 10 = 31

29 × 3 = 93

Answer:-

The next number in series is 93

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

Solution:-

(a) 1 - 5 - 11 - 21 - 37 - (61)

(b) 4 - 6 - 10 - 16 - (24)

2 4 6 8

16 + 8 = 24

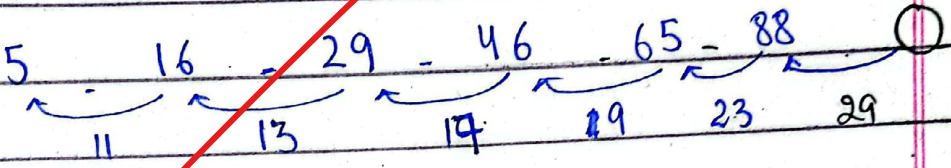
37 + 24 = 61

Answer:

The next number in series is 61

(C) 5, 16, 29, 46, 65, 88, ____

SOLUTION:-



The difference of all numbers are giving prime numbers, so next number is:

88 + 29 = 117

Result:-

Next number in series is 117.

(d) 1, 3, 4, 9, 27, 36, 243, ____, 972.

Solution:

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

Result:-

Question- 2

(A) Father ..... age?

Given Data:

Age of father = 3 times of son Rashid age

After 8 years = 2.5 times of Rashid's age

~~After further 8 years = ?~~

Required :-

Age of father after 8 years further is how many times of son's age?

Solution :-

Present age	Next 8 years	Next 8 years
Rashid age = x	$x+8$	$x+16$
Father age = $3x$	$3x+8$ ~~$2.5(3x+8)$~~	~~$3(x+16$~~ ?

After 8 years:-

Rashid's age = $x+8$

Father's age = $3x+8$

But at this time

$3x+8 = 2.5(x+8)$

So,

$3x+8 = 2.5x + 20$

$3x - 2.5x = 20 - 8$

$$0.5x = 12$$

$$x = \frac{12}{0.5}$$

$$x = \frac{12 \times 10}{5}$$

$$x = 24$$

So current ages are:-

Rashid's age (x) = 24

Father's age ($3x$) = $3(24) = 72$

After 16 years:-

Rashid's age = $x + 16 = 24 + 16 = 40$

Father's age = $3 * 72 + 16 = 88$

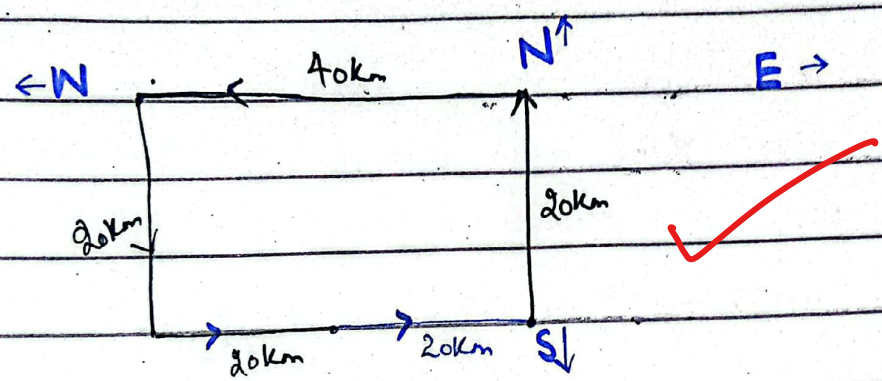
Age of father = $88/40 = 2.5$ times of son's.

Results.-

Age of father will be 2.5 times age of Rashid after 16 years.

B) Saleem :..... initial position?

SOLUTION:-



How far is he from starting position?

After the whole travelling, Saleem is **20Km** far from starting position.

How much path he had travelled?

20km North + 40km left + 20km left + 20 Km left

So total path is = 20+40+20+20 = **100Km**

In which direction he is moving?

Finally, Saleem is moving towards **East.**

In which direction he is from initial position?

Saleem is in **West** of initial position.

(c) A bus..... bus?

Solution:-

Let x be the number of men in start.

At city X:

Men $= x$

Women $= \frac{1}{2}x$

At city Y:

Men $= x-10$

Women $= \frac{1}{2}x+5$

Men = Women at city Y:

$$x-10 = \frac{1}{2}x+5$$

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

$$x = 30$$

So number of men in start $= 30$

Number of women in start $= \frac{30}{2} = 15.$

Total passengers in the start $= 45$

Result:-

In the begining 45 passengers have entered the bus.

(D) Find ..... figure?

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Answer:-

Total number of triangles are 28.