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Q3) Part (A)
Sum of three consecutive prime numbers
is 97. Find the numbers.

Solutions-

$$29 + 31 + 37 = 97$$

So, those three numbers are

29, 31 & 37

Q Part (B)

Introducing a boy, a girl said, "He is
the son of the daughter of the
father of my uncle" How is the boy
related to the girl?

Solution:-

Father of girl's uncle

Boy is the nephew of girl's uncle

Hence boy is cousin of the girl.

Part (C) Two dice are thrown simultaneously.

What is the probability of getting
two numbers whose product is even.

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Total ~~prob~~ sides in one dice = 6

Maximum probability of any side = 36

For two dice $36 + 36 = 72$

Probability of an even side for two dice = 18

So the probability of even in two dice is $\frac{18}{72}$

Ques (D) A library has an average of 510 visitors on Sunday and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is ?

Solution:-

Total Sundays in month = 5

Average visitors on Sunday in a month = 1550

Average visitors on other day of a month = 6000

Total visitors in a month = 7550

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Q 2) (Part A)

Solution

$$\text{Work of A} = 15 - 4 = 11$$

$$\text{Work of B} = 20 - 4 = 16$$

$$\text{Total work left} = \frac{11}{2} + \frac{16}{2} = \frac{2 \times 11}{2} + \frac{16 \times 2}{2}$$

$$= \frac{22}{2} + \frac{32}{2} = \frac{54}{2}$$

$$\text{So the work left is } \boxed{\frac{27}{1}}$$

Part (B) Two numbers are in a ratio 3:5.

If 9 is subtracted from each, the new numbers are in the ratio 12:23. The smaller number is ?

Smaller number is 23

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Ques (c) The average weight of A, B and C is
45 kg. If the average weight of A and
B is 40 kg and if that of B and C is
43 kg then the weight of B is ?

Weight of B = 31 kg.