

//

DATE:

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

How??  
S

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.

S

Part (C) Two dice are thrown simultaneously.

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

DATE: \_\_\_\_\_

MTWTFSS

Total ~~poss~~ 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  $\frac{18}{72}$

Part (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

DATE: \_\_\_\_\_

MTWTFSS

Q 2) (Part A)

Solution

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

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

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

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

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

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

DATE: \_\_\_\_\_

(M) (T) (W) (T) (F) (S)

Q. 10 (c) The average weight of A, B and C is  
45 kg. If the average weight of A and  
B is 40 kg and  $\frac{1}{2}$  that of B and C is  
43 kg then the weight of B is ?

Weight of B = 31 kg.

9.7.16