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QUANT TECHNIQUES STRAIGHT FROM SERIAL CAT TOPPER

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1) CONSTANT PRODUCT RULE(1/x) & 1/(x+1)

This rule can be applied when we have two parameters whose product is constant, or in other words, when they are inversely proportional to each other.

eg) Time x Speed = Distance, Price x consumption = Expenditure, Length x breadth = Area

A 1/x increase in one of the parameters will result in a 1/(x+1) decrease in the other Parameter if the parameters are inversely proportional.

Lets see the application with the following examples

1) A man travels from his home to office at 4km/hr and reaches his office 20 min late. If the speed had been 6 km/hr he would have reached 10 min early. Find the distance from his home to office?

Solution: Assume original speed= 4km/hr. Percentage increase in speed from 4 to 6= 50% or $\frac{1}{2}$. $\frac{1}{2}$ increase in speed will result in $\frac{1}{3}$ decrease in original time=30 minutes.(from given data). Original time= 90 minutes= 1.5 hours
Answer is Distance= $4 \times 1.5 = 6$ km

2) A 20% increase in price of sugar. Find the % decrease in consumption a family should adopt so that the expenditure remains constant

Solution: Here price x consumption= expenditure (constant)

Using the technique, 20% ($\frac{1}{5}$) increase results in 16.66% ($\frac{1}{6}$) decrease in consumption. Answer=16.66%

2) POWER CYCLE

The last digit of a number of the form a^b falls in a particular sequence or order depending on the unit digit of the number (a) and the power the number is raised to (b). The power cycle of a number thus depends on its' unit digit.

Consider the power cycle of 2

$$2^1=2, \quad 2^5=32$$

$$2^2=4, \quad 2^6=64$$

$$2^3=8, \quad 2^7=128$$

$$2^4=16, \quad 2^8=256$$

As it can be observed, the unit digit gets repeated after every 4th power of 2. Hence, we can say that 2 has a power cycle of 2,4,8,6 with frequency 4.

This means that, a number of the form

2^{4k+1} will have the last digit as 2

2^{4k+2} will have the last digit as 4

2^{4k+3} will have the last digit as 8

2^{4k+4} will have the last digit as 6 (where $k=0, 1, 2, 3, \dots$)

This is applicable not only for 2, but for all numbers ending in 2.

Therefore to find the last digit of a number raised to any power, we just need to know the power cycle of digits from 0 to 9, which are given below

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