* percent -> per hundred (Represented vas %). EX! 25% = 25 = 1

Ex:1)Shyam Obtained 325 marks out of 400. His percentage is = 325 ×100 = 81.25%

2) A student scored 65% of marks. Total marks were 500.

His score is = 65% of 500 = 65 x 500 = 325 marks.

19) The height of Amitabh 2 yrs ago was 110cm, Now his height is 120 cm. Find percentage change in his height.

A: Let current height = h

→ % change in height = 120-110 x100 $=\frac{10}{110}\times1000 = 9.09\%$

29) The salary of Raja is £. 9000 per month, salary of Rani is Z. 10000 per month.

a) what percent is salary of Raja to that of Raja?

b) what percent is salary of Raja to that of Rani?

Salary of Rani to Raja

b) Salavy of Raja to Rani
= 9000 × 100 = 90%.

9) Ashwin got an increment of 25% on his salary. By what percentage should his salary be decreased to obtain previous salary? A: det Ashwin's original salary = "2".

Salary after incrementing 25 do $\Rightarrow P = 2 + \frac{25}{100} \times 2 = \left[2 + \frac{2}{4}\right]$ Jo obtain previous salary à again . Se sol sille de=pc+px<u>53</u> (let some zo. must be decreased). 2 = 2+ 2 - [a+ 2] 3- tapian Inserva tob DOIX OH-DEL = TUPIN ME = 120-110 of X $\Rightarrow 3 = 100 = (20\%)$ o'. His salary should be decremented by 20% to obtain previous salary. æ 1 -> decrease o/o $= \left(\frac{\alpha}{100+\alpha} \times 100\right) \%$

-1= 50% * percentage inviease and percentage decrease: 7= 33.33% Ex: price of product changed from -1 = 25%. A Increased by 33.33% find x? 7= 201. 7 = 16.66 do ⇒ 33.33% = 4/3 -> = 14.28% 7 = 12·5 do => xx = 400 → = 11·11% (n = 300) => ziginal price. -> 1 = 9.09% Similarly, -> 1/12 = 8.33 % decreased by 33.33% = 33.33 1/- =1/3 $\rightarrow 1-1/3 = 2/3$ =) = xx = 300 => (original price). (101) 1 280 (101) 2 (100%) 140 2- ax 60 = 140 => 2+ 20x 40 = 280 $=) x - \frac{3}{5} x = 140$ =) $n+\frac{2}{5}n=280$ 22=140X5 An = 280 x 5 40 a= 350 2=200 XX 40 \$ 140 (08) 2X(140) = 280 560 1 by 40% = 140, 4 100-60=40/r

8) A +33.33!
$$+16.66$$
! 500 find α ?

After 1year again

 $\Rightarrow +38.33\% = 1+\frac{1}{3}=4/3$
 $\Rightarrow +16.66\% = 1+\frac{1}{6}=\frac{7}{6}$
 $\Rightarrow (\alpha \times \frac{1}{3}) \times \frac{7}{6}=500$
 $\Rightarrow \alpha = \frac{250}{500} \times \frac{2}{6} \times \frac{3}{3} = \frac{250\times 9}{7}$

Shottcut:

 $9\% \text{ Net} = \text{P1} + \text{P2} + \frac{\text{P1P2}}{100}$
 $\Rightarrow 150\% \times \frac{1}{3} \times \frac{1}{3} = \frac{250\times 9}{7}$

Net percentage change

 $= 50 - 30 - \frac{1500}{100}$
 $= +50\%$

i.e, Net incuase in 5% of product.

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DXOP1 : EC

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AXABE DE



