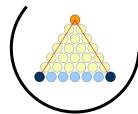
Percentage

80 21 HO 315

Basics

$$\frac{160}{2 - 160} \rightarrow 80.1$$

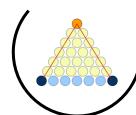




Percentage

- □ Percent means parts per hundred. The word comes from the Latin phrase per centum, which means per hundred.
- \Box Numbers expressed as a fraction of 100, is known as percentage





Basic Calculations

1. 30% of
$$X = 150$$
 \longrightarrow 500

$$\frac{30}{107} \times x = 150$$

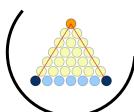
$$x = \frac{1500}{3}$$



Basic Calculations

150% of 262
$$\rightarrow$$
 393





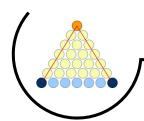
Observation

460



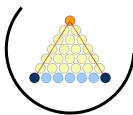
1001. 92

$$\frac{100}{100} \times x = x$$



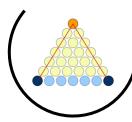
$$50 \cdot 10 = \frac{50}{100} = \frac{1}{2}$$



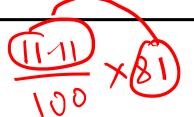


Fraction to Percentage equivalent



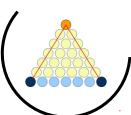


Basic Calculations



- 1. 11.11% of 81 —) 9
- 2. 9.09% of 88 -> 8
- 3. 16.67% of 96 -> \6
- 4. 14.28% of 63 -> 9

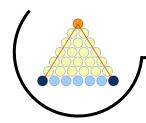




Basic Calculations

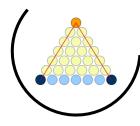
$$12.5.10 = \frac{1}{8}$$
 $5(12.5).10 = \frac{5}{8} = 625.10$





X% of y= y% of x

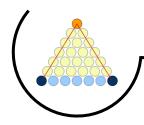




Basic Calculations

- 1. 21.6% of 750 =
- 2. 31.6% of 75 =
- 3. 56.67% of 180 =





Percent Change =
$$\frac{\text{Amount of Change}}{\text{Original Amount}} \times 100 \%$$

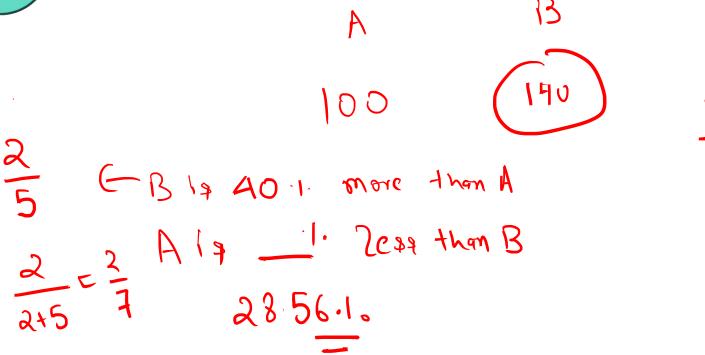




The price of sugar becomes ₹7.25 per kg after an increase of 45%. Find the original price of sugar.



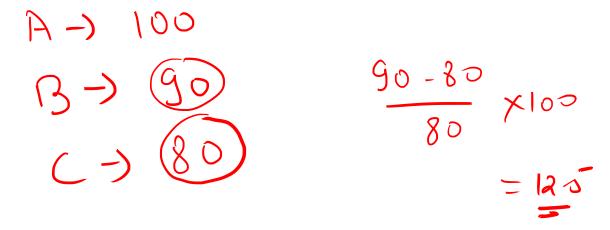
Ashok's salary increased by 25% this year. By what percentage was his last year salary less, when compared to this year's salary?

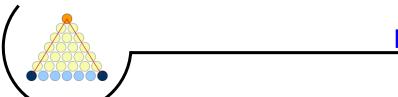


$$\frac{1}{20.1}$$
. $\frac{1}{141}$ $\frac{9}{9}$ $\frac{2085}{2085}$.



A, B and C have certain number of mangoes with them. B has 10% less mangoes than A and C has 20% less than A. By what percentage is the number of mangoes with B more than those with C?





If a number X is
$$\frac{a}{b}$$
 less than . λ .

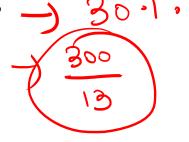
more than Y then Y must
$$\frac{a}{a+b}$$

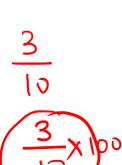




If A is having ₹80 and B is having ₹104

- . A is having what percent of B? $\frac{80}{104} \times 10^{-6}$
- 2. B is having what percent of A? $\frac{10H}{100}$ $\frac{10H}{100}$
- 3. B is having what percent more than A?
- 4. A is having what percent less than B?

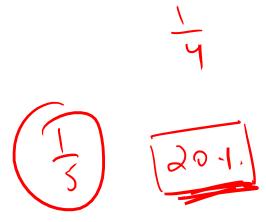




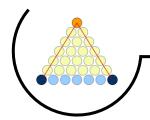


In an exam, Ram got 25% more marks than Laxman. By what percentage are the marks of Laxman less than that of Ram?





salary after 2nd like? J.21 X 1,00,000 = 1,21,000



Successive Percentage Change = X + Y + (XY/100)





In 2017, your salary was ₹10000. In 2018 your salary was increased by 10% and in 2019 increased by 20%. What was your salary after second

increment?

$$=32.1$$

= - 21. 0821.1.1



In 2017, your salary was ₹10000. In 2018 your salary was increased by 10% and in 2019 decreased by 20%. What was your salary after second change?



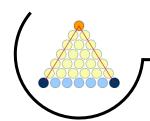


If length of a rectangle is increased by 20% and breadth is increased by 30%. What will be the percentage change on area?

$$20+30+\frac{600}{100}$$



In 2017, your salary was ₹10000. In 2018, 2019 & 2020 your salary was increased by 10%, 20% and 30% respectively. What is your salary after third increment?



Successive Percentage Change =

$$244424$$
 $\frac{27472424}{100}$ $+$ $\frac{342}{10000}$

