

Class - 7<sup>th</sup>  
Subject - math  
Date - 23/01/2024

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Lesson - 10 (Percentage and its applications)

To express Percentage as a Ratio.

Rule :- First convert the percentage into a fraction in simplest form and then change to a ratio.

example :- Express each of the following as a ratio:

- (i) 15%                      (ii) 7.3%

Solution :- (i)  $15\% = \frac{15}{100} = \frac{3}{20} = 3:20$

(ii)  $7.3\% = \frac{7.3}{100} = \frac{73}{10 \times 100} = \frac{73}{1000}$

$= 73:1000$

Example - Find

- (i) 20% of 250

Solution -  $20\% \text{ of } 250$   
 $= \frac{20}{100} \times 250$   
 $= 50$



exp 3: Find the whole quantity if

(i) 80% of it is 560.

Solution: Let the whole quantity be  $x$ .

$$80\% \text{ of } x = 560$$

$$\Rightarrow \frac{80}{100} \times x = 560$$

$$\Rightarrow x = \frac{560 \times 100}{80}$$

$$\Rightarrow x = 700$$

Hence, the whole quantity is 700.

exp 4: What percent of :-

(i) 72 is 9?

Solution - (i) Let  $x\%$  of 72 be 9.

$$\text{Then, } \frac{x}{100} \times 72 = 9$$

$$x = \frac{9 \times 100}{72}$$

$$x = \frac{25}{2} = 12\frac{1}{2}\%$$

Hence,  $12\frac{1}{2}\%$  of 72 is 9.



H.W

Exercise - 10.1

Question no 4, 5, 6, 7, 8 and 9  
Complete.