

## PERCENTAGE

The word percent means for every hundred. Percentage is a concept evolved so that there can be a uniform platform for comparison between two or more quantities

### Some points to remember

- If the price of a commodity increases by  $R\%$ , then the reduction in consumption so as not to increase the expenditure is:  $(R(100+R)) \times 100\%$
- If the price of the commodity decreases by  $R\%$ , then to maintain the same expenditure by increasing the consumption is:  $(R(100-R)) \times 100\%$
- . Population after  $n$  years  $= P[1+(R/100)]^n$
- Population  $n$  years ago  $= P[1+(R/100)]^n$
- . Value of the machine after  $n$  years  $= P[1-(R/100)]^n$
- Value of the machine  $n$  years ago  $= P[1-(R/100)]^n$
- If A is  $R\%$  more than B, then B is less than A by  $(R(100+R)) \times 100\%$
- If A is  $R\%$  less than B, then B is more than A by  $(R(100-R)) \times 100\%$
- For faster calculations we can convert the percentages to their respective fraction notations. The following is a table shows the conversions of percentages into fractions:

Percentage	Fraction		Percentage	Fraction
10%	1/10		60%	3/5
12.5%	1/8		62.5%	5/8
16.66%	1/6		66.66%	2/3
20%	1/5		70%	7/10
25%	1/4		75%	3/4
30%	3/10		80%	4/5
33.33%	1/3		83.33%	5/6
40%	2/5		90%	9/10
50%	1/2		100%	1

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