# Notes on Percent

Percent means literally “per cent” or “per 100”. This can be written as .

* Thus, 20% is . **A number followed by a percent sign has a denominator of 100.**
* Think of percent as a part of a whole.
  + a % of a number = a part of a whole. The whole always has 100 parts.

There are 4 primary methods to solve percent problems.

* + 1. Proportions
    2. Multiply by a decimal
    3. Multiply by a fraction
    4. Mentally

## Proportions

* *Is over of* equals *percent over 100*. ().
* 50% of 40 is .  100x = 2000 x = 20

## Multiply by a Decimal

* 50% of 40 = 50%==.50 .5040 = 20

## Multiply by a fraction

* 50% of 40 = 50%== 40 = 20

## Mentally

* 50%= of 40 is 20

**Common Percents as fractions:**

**10%=**

**20%=**

**25%=**

**30%=**

**33.3%=**

**50%=**

**60%=**

**66.6%=**

**70%=**

**75%=**

**80%=**

**90%=**

**7.5%=**

**12.5%=**