# Percents & Decimals

**What does percent mean?**

**If we write the percent as a fraction without reducing, what will the denominator be?**

**In order to write the percent as a decimal, where will the decimal point be in comparison to where it was in the percent?**

**If you have to pay 7% tax on an item you buy, how much will be paid on a $1?**

**Express each percent as a decimal:**

1. **25% II. 82%**
2. **7.3% IV. 0.55%**

**If you get 85 questions right out of 100, write your score as a fraction in simplest form and a decimal.**

**Now write your score as a percent.**

**Express each decimal as a percent:**

**V. 0.35 VI. 0.4**

**VII. 5.1 VIII. 0.25**

**Solution page:**

**In converting percents to decimals, show students how we go from a percent to a fraction and then to a decimal. Eventually they should be able to go directly to the decimal.**

What does percent mean?

#### Percent means out of 100

If we write the percent as a fraction without reducing, what will the denominator be?

**100**

In order to write it as decimal, where will the decimal point be in comparison to where it was in the percent?

It will be two places to the left of where the percent was because we have divided the percent by 100, which makes it smaller.

If you have to pay 7% tax on an item you buy, how much will be paid on a $1?

**$.07**

1. 25% **= 25/100 = .25**
2. 82% **= 82/100 = .82**
3. 7.3% **= 7.3/100 = .073**
4. 0.55% **= 0.55/100 = 0.0055**

 If you get 85 questions right out of 100, write your score as a ratio and a decimal.

 = = .85

Now write your score as a percent.

**85%**

Express each decimal as a percent:

V. 0.35 **= 35%** VI. 0.4 **= 40%**

VII. 5.1 **= 510%** VIII. 0.25 **= 25%**