Understanding Percents
4.2 Fractions, Decimals and Percents

This diagram represents $\frac{3}{4}$

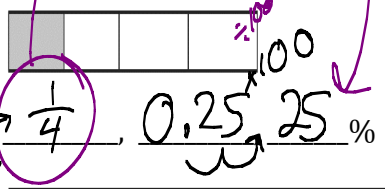
This fraction is 0.75 or 75 % of the square.

1.0
100%

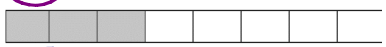
divide
1 ÷ 4
=

To change a decimal to a percent, multiply by 100 and add a percent symbol.

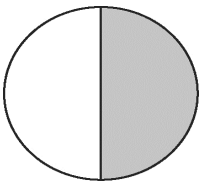
Show each diagram as a fraction, a decimal, and a percent.



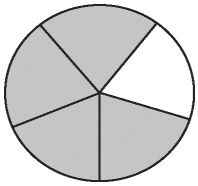
$\frac{1}{4}$, 0.25, 25 %



$\frac{3}{8}$, 0.375, 37.5 %



$\frac{1}{2}$, 0.5, 50 %



$\frac{4}{5}$, 0.80, 80 %

Fractions, decimals and percents can be used to represent numbers in various situations

Percent means out of 100, so ...3% = $\frac{3}{100}$

0.19 means 19 out of 100, so 0.19 = 19 %

tenths hundredths $\frac{19}{100}$

Fill in the blanks to convert each fraction to a percent.

$\frac{1}{4} = 1 \div 4 = 0.25 = \frac{25}{100}$ %

$\frac{3}{5} = \frac{60}{100} = 60$ %

$\frac{17}{20} = \frac{85}{100} = 85$ %

$\frac{93}{200} =$ dividing $= 46.5$ %

(93 ÷ 200) × 100

no decimals in fractions *

Fill in the blanks to convert each percent to a fraction in lowest terms

80% = $\frac{80}{100} = \frac{8}{10} = \frac{4}{5}$

250% = $\frac{250}{100} = \frac{25}{10} = \frac{5}{2}$

12.5% = $\frac{12.5}{100} = \frac{125}{1000} = \frac{5}{40} = \frac{1}{8}$

0.66% = $\frac{0.66}{100} = \frac{66}{10000} = \frac{33}{5000}$

Try this

Fraction	Decimal	Percent
$\frac{13}{100}$ *	0.13	13%
$\frac{23}{100}$	0.23	23%
$\frac{47}{100}$	0.47	47%
$\frac{101}{100}$	1.01	101%
$\frac{125}{1000} = \frac{1}{8}$	0.125	12.5
$\frac{4}{5}$ 4÷5	0.8	80%

Practice:

Fraction	Decimal	Percent
$\frac{25}{100} = \frac{1}{4}$	0.25	25%
$\frac{123}{100}$	1.23	123%
$\frac{86}{100} = \frac{43}{50}$	0.86	86%
$\frac{82}{100} = \frac{41}{50}$	0.82	82%
$\frac{13.25}{100} = \frac{1325}{10000} = \frac{53}{400}$	0.1325	13.25%
$\frac{7}{8}$	0.875	87.5%