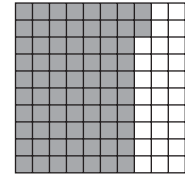# Fractions, Decimals, and Percents

Fractions, decimals, and percents all name parts of a whole.
Percent means per hundred, so 15% means 15 parts per hundred.
The grid to the right has 72 out of 100 squares shaded. The shaded part
can be represented with a fraction, $\frac{72}{100}$ ($\frac{18}{25}$ in simplest form), by a decimal,
0.72, and by a percent, 72%.

Write 36% as a fraction in simplest form and as a decimal.

$36\% = \frac{36}{100} = 0.36$

Simplify the fraction:

$\frac{36}{100} = \frac{36 \div 4}{100 \div 4} = \frac{9}{25}$

So, $36\% = \frac{9}{25} = 0.36$.

Write 0.47 as a fraction in simplest form and as a percent.

$0.47 = \frac{47}{100} = 47\%$

Write $\frac{3}{4}$ as a decimal and as a percent.

You can use a proportion or divide to help you.

Use a proportion:

$\frac{3}{4} = \frac{n}{100}$

$4n = 300$

$n = 75$

Use division:

$$\begin{array}{r} 0.75 \\ 4\overline{)3.00} \\ \underline{2\ 8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

So, $\frac{3}{4} = \frac{75}{100} = 0.75 = 75\%$.

Write each number in two other ways. Write fractions in simplest form.

1. $\frac{2}{100}$ _____ ; _____

2. $\frac{71}{100}$ _____ ; _____

3. $\frac{9}{10}$ _____ ; _____

4. 17% _____ ; _____

5. 48% _____ ; _____

6. 60% _____ ; _____

7. 0.04 _____ ; _____

8. 0.22 _____ ; _____

9. Writing to Explain Jamal said that he could write a percent as
a decimal by moving the decimal point two places to the left and
deleting the percent sign. Is he correct? How do you know?

_____

10. Number Sense Two stores sell their goods at
the manufacturers' suggested retail prices, so
their prices are the same. Which store has the
greatest markdown from their original prices?

GOODS 2 GO	BUY AND BYE
$\frac{1}{4}$ off	30% off
original prices!	original prices!

_____