15.1

Fractions, Decimals, & Percents
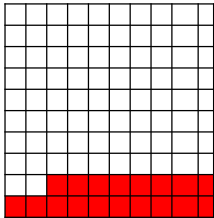
Today's Learning Goals:

- Write percents as fractions with denominators of 100.

- Write fractions as percents and backward.

- Write decimals to percents and backward
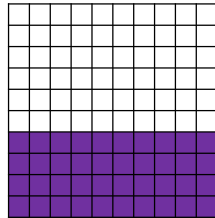

What is a percent?
Percent means "Out of 100" or "Per 100"

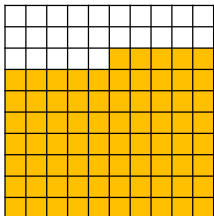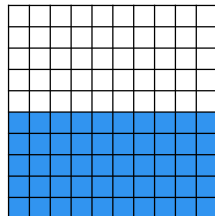Write the indicated percent as a fraction. Simplify if possible.

1) 18%

2) 40%

3) 75%

4) 50%

What is a percent?
Percent means "Out of 100" or "Per 100"

Write the indicated percent as a fraction, mixed number, or whole number in simplest terms.

5) 60%

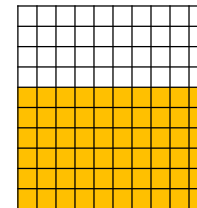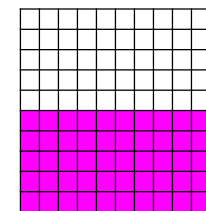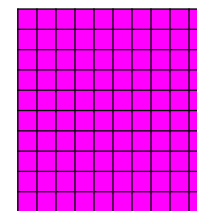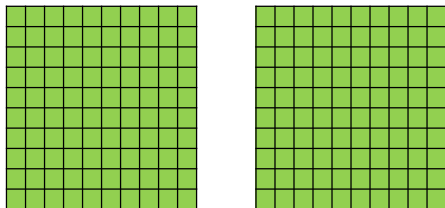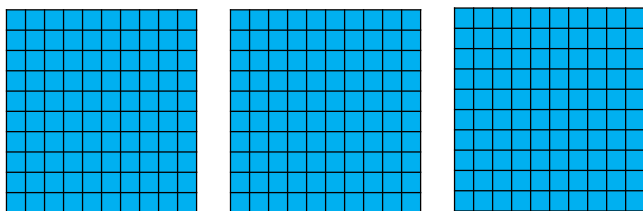6) 150%

What is a percent?
Percent means "Out of 100" or "Per 100"

Write the indicated percent as a fraction, mixed number, or whole number in simplest terms.

7) **200%**

8) **300%**

Converting Fractions to Percents

1) $\dfrac{9}{10} = \dfrac{90}{100} = 90\%$

2) $\dfrac{4}{5} = \dfrac{80}{100} = 80\%$

3) $\dfrac{17}{25} = \dfrac{78}{100} = 78\%$

Practice

a. Write 35% as a fraction in simplest form.
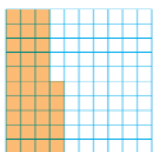
b. Write 100% as a fraction in simplest form.

c. Write 174% as a mixed number in simplest form.

Practice

Write the indicated percent as a fraction, mixed number, or whole number in simplest terms.
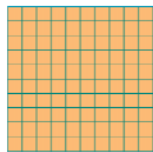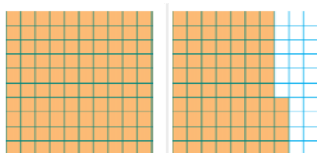
d) 5%

e) 168%

f) 36%

g) 83%

Practice

h) Write $\frac{3}{50}$ as a percent.

Application

A drought affects 9 out of 12 midwestern states. What percent of the midwestern states are affected by the drought?

Midwestern United States

Practice

Write the fraction or mixed number as a percent.

i) $\frac{31}{50}$

j) $\frac{7}{25}$

k) $\frac{19}{20}$

l) $1\frac{1}{2}$

Review: Decimals to Fractions

Convert the following decimals into fractions

1) 0.6

2) 0.15

Review: Decimals to Fractions

Convert the following decimals into fractions

3) 0.125

4) 7.24

Review: Fractions to Decimals

Convert the following fractions into decimals

5) $\dfrac{3}{5}$

6) $\dfrac{1}{8}$

Review: Fractions to Decimals

Convert the following fractions into decimals

7) $\dfrac{5}{6}$

8) $3\dfrac{7}{8}$

Review: Percents to Fractions

Convert the following percents into fractions

9) 48%

10) 5.36%

$$19\% = \frac{19}{100} = .19$$

DOOP

Decimal   Percent

Converting...

DOOP
Decimal   Percent

Convert the following into decimals:

1) 48%   2) 9%

3) 75.5%

Convert the following into percents:

4) 0.13   5) 0.04

6) 0.027

Practice

DOOP
Decimal   Percent

Convert the following into decimals:

7) 0.3%   8) 0.0017%

9) 350%

Convert the following into percents:

10) 0.005   11) 5.8

12) 0.00093

Putting it all together...

Fill in the table with the appropriate converted value.

Fraction	Decimal	Percent
$\frac{2}{5}$		
	0.35	
		64%
$\frac{1}{8}$		