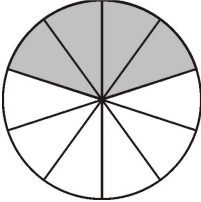
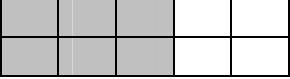
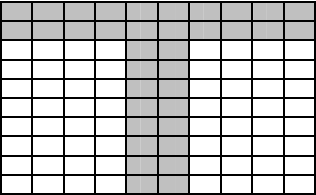




Diagnostic Activity

1. For each figure, state the fraction, decimal and percent that is shaded.

Figure	Fraction	Decimal	Percent
			
			
			

2. Draw each of the following:

a) A square that is 50% shaded.

b) A rectangle that is 75% shaded.



It's All the Same (Fractions and Percents)

Suggested Time: 45 minutes

What's important in this lesson:

In this lesson, you will recall common equivalences between fractions and percents; solve problems involving common equivalences between fractions and percents.

Complete the following steps:

1. Read through the lessons on your own.
2. Complete all questions provided.
3. If you have any questions, ask your teacher.
4. Check your answers with the teacher.

Hand in the following:

1. Diagnostic Activity
2. Practice Problems

Questions for the teacher:



It's All the Same

Part A: Writing a Fraction as a Percent

To write a fraction as a percent:

$$\text{Numerator} \div \text{Denominator} \times 100$$

Example

Write $\frac{3}{5}$ as a percent

$$\begin{aligned} 3 \div 5 \times 100 \\ = 60\% \end{aligned}$$

Practice

Convert the following to percents:

$\frac{1}{2} = \underline{\hspace{2cm}}$

$\frac{1}{4} = \underline{\hspace{2cm}}$

$\frac{3}{4} = \underline{\hspace{2cm}}$

$\frac{1}{3} = \underline{\hspace{2cm}}$

$\frac{2}{3} = \underline{\hspace{2cm}}$

$1 = \underline{\hspace{2cm}}$

Part B: Writing a Percent as a Fraction

By definition, **percent** means out of 100.

This means...

To write a percent as a fraction

Write the percent over 100 (creating the fraction)
Reduce the fraction to lowest terms (if possible)

Example

Write 20% as a fraction:

$$\begin{array}{ccc} & \div 20 & \\ \swarrow & & \searrow \\ \frac{20}{100} & = & \frac{1}{5} \\ \nwarrow & & \nearrow \\ & \div 20 & \end{array}$$

There are two percents that are approximated when converting to a fraction.

They are:

$\frac{1}{3} \approx 33\%$

and

$\frac{2}{3} \approx 67\%$

The percents have been rounded.

Practice

1. Convert the following percents to fractions in lowest terms:

50% = _____

25% = _____

67% = _____

60% = _____

100% = _____

70% = _____

2. MATCH GAME

Match the percent with the fraction

25%

 $\frac{1}{3}$

30%

 $\frac{1}{2}$

33%

1

40%

 $\frac{3}{4}$

50%

 $\frac{3}{10}$

67%

 $\frac{1}{4}$

75%

 $\frac{2}{5}$

80%

 $\frac{2}{3}$

100%

 $\frac{4}{5}$

3. One of the 4 people in my family wears glasses. What percent of my family wears glasses?

4. You have used 67% of the ink in your printer. What fraction of the ink remains?