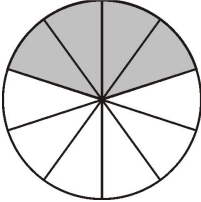
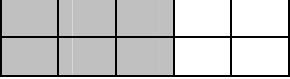
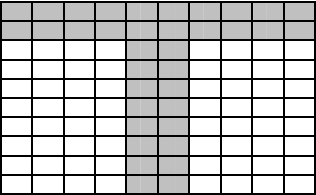




### Diagnostic Activity

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?