Name _____   Date _____

Percent

1. Fill in the chart converting between fractions, decimals, and percents. Show work in the space provided.

Fraction	Decimal	Percent
$\dfrac{1}{8}$		
	1.125	
		$\dfrac{2}{5}\%$

2. Using the values from the chart in Problem 1, which is the least and which is the greatest? Explain how you arrived at your answers.

1. Create a model to represent the following percents.

    a. 90%   b. 0.9%   c. 900%   d. $\dfrac{9}{10}$%

2. Benjamin believes that $\dfrac{1}{2}$% is equivalent to 50%. Is he correct? Why or why not?

3. Order the following from least to greatest:

    100%, $\dfrac{1}{100}$, 0.001%, $\dfrac{1}{10}$, 0.001, 1.1, 10, and $\dfrac{10,000}{100}$

4. Fill in the chart by converting between fractions, decimals, and percents. Show work in the space below.

Fraction	Decimal	Percent
		100%
	0.0825	
	6.25	
		$\dfrac{1}{8}$%
$\dfrac{2}{300}$		
		33.3%
$\dfrac{\frac{3}{4}}{100}$		
		250%
	0.005	
$\dfrac{150}{100}$		
$\dfrac{5\frac{1}{2}}{100}$	0.055	$5\dfrac{1}{2}$%

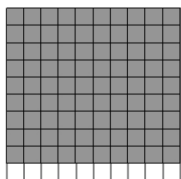1. Fill in the chart converting between fractions, decimals, and percents. Show work in the space provided.

Fraction	Decimal	Percent
$\dfrac{1}{8}$	$1 \div 8 = 0.125$	$0.125 \times 100 = 12.5\%$
$1\dfrac{125}{1000} = 1\dfrac{1}{8}$	1.125	$1.125 \times 100 = 112.5\%$
$\dfrac{\frac{2}{5}}{100} = \dfrac{1}{250}$	$(2 \div 5) \div 100 = 0.004$	$\dfrac{2}{5}\%$

2. Using the values from the chart in Problem 1, which is the least and which is the greatest? Explain how you arrived at your answers.

The least of the values is $\dfrac{2}{5}\%$, and the greatest is 1.125. To determine which value is the least and which is the greatest, compare all three values in decimal form, fraction form, or percents. When comparing the three decimals, 0.125, 1.125, and 0.004, one can note that 0.004 is the smallest value, so $\dfrac{2}{5}\%$ is the least of the values and 1.125 is the greatest.
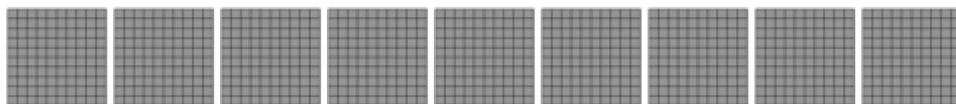
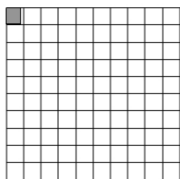1. Create a model to represent the following percents.

   a. 90%

   b. 0.9%
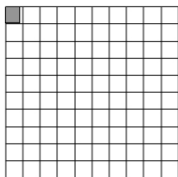
   c. 900%

d. $\frac{9}{10}\%$

2. Benjamin believes that $\frac{1}{2}\%$ is equivalent to 50%. Is he correct? Why or why not?

   Benjamin is not correct, because $\frac{1}{2}\%$ is equivalent to 0.50%, which is equal to $\frac{\frac{1}{2}}{100}$. The second percent is equivalent to $\frac{50}{100}$. These percents are not equivalent.

3. Order the following from least to greatest.

   $100\%, \ \frac{1}{100}, \ 0.001\%, \ \frac{1}{10}, \ 0.001, \ 1.1, \ 10, \text{ and } \frac{10,000}{100}$

   $0.001\%, \ 0.001, \ \frac{1}{100}, \ \frac{1}{10}, \ 100\%, \ 1.1, \ 10, \text{ and } \frac{10,000}{100}$

4. Fill in the chart by converting between fractions, decimals, and percents. Show work in the space below.

Fraction	Decimal	Percent
$\frac{1}{1}$	1	100%
$\frac{33}{400}$	0.0825	8.25%
$6\frac{1}{4}$	6.25	625%
$\frac{\frac{1}{8}}{100}$	0.00125	$\frac{1}{8}\%$
$\frac{2}{300}$	$0.00\overline{6}$	$\frac{2}{3}\%$
$\frac{333}{1,000}$	0.333	33.3%
$\frac{\frac{3}{4}}{100}$	0.0075	$\frac{3}{4}\%$
$2\frac{1}{2}$	2.50	250%
$\frac{1}{200}$	0.005	$\frac{1}{2}\%$
$\frac{150}{100}$	1.5	150%
$\frac{5\frac{1}{2}}{100}$	0.055	$5\frac{1}{2}\%$