Name: _____   Class: _____

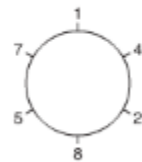## Math Homework – Week of October 1 – October 5

DUE: Thursday October 4

** You may use your calculator **

1. If I am given a fraction ($\frac{9}{16}$) and I want to convert it to a decimal (.), how can I do this using my calculator? Use words to explain your answer.

2. a. Write $\frac{1}{7}$ as a repeating decimal. How many digits repeat? These repeating digits are shown around the circle at the right.

   b. Write the fractions $\frac{2}{7}, \frac{3}{7}, \frac{4}{7}, \frac{5}{7}$, and $\frac{6}{7}$ in decimal form. What patterns do you see? How does the circle of digits on the right help you write the fractions as decimals?

3. How do you pronounce the following decimals?
   a. 0.8

   b. 0.47

   c. 0.289

   d. 0.63

4. Write each fraction as a decimal.

    i) $\frac{6}{8}$ ii) $\frac{1}{3}$ ii) $\frac{3}{5}$ iv) $\frac{7}{8}$ v) $\frac{6}{7}$

    b) Identify the decimals in part a as terminating or repeating.

5. For each fraction, write an equivalent fraction with denominator 10, 100, or 1000. Then, write the fraction as a decimal.

    a) $\frac{4}{5}$ b) $\frac{3}{50}$ c) $\frac{7}{20}$ d) $\frac{19}{200}$

6. Write the first 6 fractions as decimals. What patterns do you see?
   Use the patterns to write the remaining fractions as decimals.

Fraction	Decimal		Fraction	Decimal
$\frac{1}{22}$			$\frac{8}{22}$	
$\frac{2}{22}$			$\frac{9}{22}$	
$\frac{3}{22}$			$\frac{10}{22}$	
$\frac{4}{22}$			$\frac{11}{22}$	
$\frac{5}{22}$			$\frac{12}{22}$	
$\frac{6}{22}$			$\frac{13}{22}$	
$\frac{7}{22}$			$\frac{14}{22}$	

7. Draw 2 equivalent fractions to represent $\frac{1}{2}$. Use shapes such as circles, rectangles to represent your answer.