

Name \_\_\_\_\_



**REPEATING DECIMALS #1**



**PART A:** For each set of problems in Part A, determine which of the expressions is equivalent to the expression inside the box. Circle your answer.

1.

$$\frac{4}{9}$$

- a.  $0.0\bar{4}$     b. 2.25    c.  $0.\bar{4}$     d.  $2.\bar{25}$     e. 0.44

2.

$$\frac{1}{12}$$

- a. 1.12    b.  $0.\bar{83}$     c. 12.0    d.  $1.\bar{2}$     e.  $0.8\bar{3}$

3.

$$3\frac{5}{12}$$

- a.  $3.8\bar{3}$     b.  $3.4\bar{16}$     c.  $3.4\bar{1}\bar{6}$     d.  $3.\bar{4}\bar{1}\bar{6}$     e. 41.12

4.

$$0.\bar{27}$$

- a.  $\frac{1}{3}$     b.  $\frac{3}{10}$     c.  $\frac{2}{7}$     d.  $\frac{3}{11}$     e.  $\frac{5}{8}$

**PART B:** Convert the fraction below into an equivalent repeating decimal.

5.

$$\frac{9}{11} = \boxed{\phantom{000}}$$

**PART C:** Convert the repeating decimal below into an equivalent fraction.

6.

$$0.\bar{8} = \boxed{\phantom{00}}$$