Name: Date:

Fractions and Decimals

1. Write as decimals. If you need to, first write an equivalent fraction with a denominator 10, 100, or 1000.

a. $\frac{14}{100} =$ **b.** $\frac{7}{10} =$ **c.** $\frac{5}{1000} =$ **d.** $\frac{2}{5} =$ **e.** $1\frac{9}{100} =$

f. $\frac{3}{20} = \frac{\quad}{100} =$ **g.** $\frac{7}{25} =$ **h.** $\frac{3}{5} =$ **i.** $1\frac{3}{4} =$ **j.** $5\frac{3}{8} =$

2. Change to decimals. Use a bar to show the repeating part.

a. $\frac{1}{6}$ $\frac{5}{6}$ **b.** $\frac{1}{9}$ $\frac{2}{9}$ **c.** $\frac{3}{11}$ $\frac{5}{11}$ **d.** $\frac{3}{7}$ $\frac{4}{7}$ **e.** $\frac{2}{15}$ $\frac{7}{15}$

3. Make sure you know the decimal equivalents of these common fractions!

$\frac{1}{3} =$ $\frac{2}{3} =$	$\frac{1}{4} =$ $\frac{3}{4} =$	$\frac{1}{5} =$ $\frac{3}{5} =$ $\frac{2}{5} =$ $\frac{4}{5} =$	$\frac{7}{10} =$ $\frac{3}{100} =$	$\frac{74}{100} =$ $\frac{9}{1000} =$

4. Change to decimals. Use long division. Use a bar to show the repeating part.

a. $\frac{3}{14}$ **b.** $\frac{28}{45}$ **c.** $\frac{8}{33}$ **d.** $1\frac{8}{15}$

e. $\frac{29}{40}$ **f.** $\frac{13}{12}$ **g.** $\frac{5}{32}$ **h.** $2\frac{37}{125}$

5. Compare.

a. $\frac{1}{10}$ ▢ 0.11 **b.** $\frac{1}{11}$ ▢ 0.10 **c.** $\frac{1}{12}$ ▢ 0.12 **d.** $\frac{3}{4}$ ▢ 0.67 **e.** 0.68 ▢ $\frac{3}{5}$

f. $\frac{13}{10}$ ▢ 1.31 **g.** $1\frac{2}{5}$ ▢ 1.25 **h.** $3\frac{2}{3}$ ▢ 3.75 **i.** $\frac{5}{1000}$ ▢ 0.03 **j.** 0.2 ▢ $\frac{15}{100}$

6. Order these rational numbers.

a. $\frac{3}{10}$,0.33, $\frac{1}{3}$, 0.42, $\frac{2}{5}$, 0.281, $\frac{1}{4}$, 0.40	**b.** $\frac{2}{50}$, 0.09, $\frac{1}{10}$, 0.001, $\frac{11}{100}$, 0.11