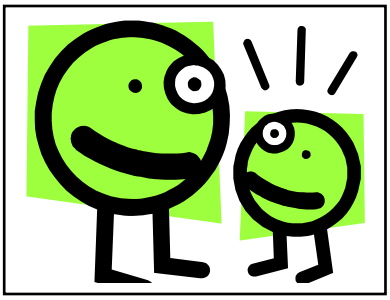

Estimating Fractions and Decimals By Rounding

Name_____

Use Fraction Towers, Fraction Strips, sketches
or number lines to model each fraction and equivalent decimal number, then round to the nearest half. (Hint: examples of nearest halves ½ or 0.5, 1 or 1.0, 1½ or 1.5, 2 or 2.0, 2½ or 2.5, 3 or 3.0, 3½ or 3.5, 4 or 4.0…)

1. $\frac{7}{8}$, **0.875**

2. $\frac{3}{4}$, **0.75**

3. $\frac{1}{4}$, **0.25**

4. $\frac{2}{3}$, $0.\overline{6}$

5. $\frac{1}{8}$, **0.125**

6. $\frac{2}{5}$, **0.4**

Round each mixed number to the nearest half to determine the most reasonable estimate for an answer. (Hint: examples of nearest halves ½ or 0.5, 1 or 1.0, 1½ or 1.5, 2 or 2.0, 2½ or 2.5, 3 or 3.0, 3½ or 3.5, 4 or 4.0…)

7. $1\frac{5}{8} + 2\frac{3}{4}$, **1.625 + 2.75**

8. $3\frac{2}{3} - 2\frac{1}{2}$, $3.\overline{6} - 2.5$

9. $1\frac{1}{3} + 5\frac{3}{4}$, $1.\overline{3} + 5.75$

10. $5\frac{3}{4} - 4\frac{1}{2}$

11. In your own words explain what is meant by "rounding" a number and why rounding is helpful in deciding whether your answer is reasonable or not.