

Name: \_\_\_\_\_

Core: \_\_\_\_\_

### Estimating and Rounding Homework

Due Friday, January 12<sup>th</sup>

Fill in the names of the place values.

\_\_\_\_\_ , \_\_\_\_\_ . \_\_\_\_\_

Solve each problem. Round the final answer to the nearest whole number. Circle final answer.

1. 
$$\begin{array}{r} 2.4 \\ + 1.7 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 18.6 \\ + 9.5 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 0.01 \\ + 0.72 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 16.88 \\ - 9.3 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 52.07 \\ - 3.9 \\ \hline \end{array}$$

Solve each problem. Round the final answer to the nearest tenths. Circle final answer.

6. 
$$\begin{array}{r} 7.57 \\ - 6.85 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 8.12 \\ - 6.01 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 18.9 \\ - 16.42 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 86.7 \\ 5.2 \\ + 8.4 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 42.65 \\ 67.23 \\ + 12.12 \\ \hline \end{array}$$

### Estimating answers to multiplication problems.

First, round each number to the nearest tens place. Then multiply to find the answer.

1. 
$$\begin{array}{r} 87 \\ \times 5 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 72 \\ \times 18 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 425 \\ \times 15 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 303 \\ \times 83 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 187 \\ \times 26 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 93 \\ \times 6 \\ \hline \end{array}$$

Now solve each problem. No calculators, so show how you solved the problem! **Circle final answer.**

1. 
$$\begin{array}{r} 87 \\ \times 5 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 72 \\ \times 18 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 425 \\ \times 15 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 303 \\ \times 83 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 187 \\ \times 26 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 93 \\ \times 6 \\ \hline \end{array}$$

Were your estimates in the previous section close? If your estimate for a problem was very different, check your work for mistakes.

### Written Response:

When would you want to use estimating and rounding in real life? Think about times you had to multiply large numbers or use decimals.

Explain in your own words how you round a number to a given place value. You might want to make a few examples to help you explain.

### Advanced Learners – Extended Practice:

Solve the following multiplication problems without using a calculator {so show your work!}

**Circle final answer.**

1. 
$$\begin{array}{r} 918 \\ \times 55 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 755 \\ \times 221 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 618 \\ \times 500 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 1,242 \\ \times 687 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 622 \\ \times 437 \\ \hline \end{array}$$