Name _____ Date _____ Class _____

Skills Readiness
Rounding and Estimation

Rounding a number provides an approximate value of the number. Estimation is
often used when the final result does not need to be an exact number.

To round a number:
Step 1: Find the place to which you are rounding.
Step 2: Look at the digit immediately to the right of that place.
Step 3: If this digit is greater than or equal to 5, round the digit in the rounding place up 1. If the digit is less than 5, the digit in the rounding place is unchanged.
Step 4: If you are rounding to a decimal place or to the nearest whole number, drop the digits to the right of the rounding place. If you are rounding to tens, hundreds, or any larger place value, fill in zeros as needed.

Example: Round 14.638 to the nearest tenth.   **Step 1:** The digit to be rounded is 6.
                                                Step 2: 3 is to the right of 6.
                                                Step 3: $3 < 5$, so 6 is unchanged.
                                                Step 4: Drop the digits 3 and 8.
                                                Answer: 14.6

Practice on Your Own
Round each number to the indicated place value.

1. 146.3892; hundredth   **2.** 235.7; whole number   **3.** 47; tens

_____   _____   _____

4. 15.275; tenth   **5.** 0.0048; thousandth   **6.** 3.99; tenth

_____   _____   _____

**Estimate the sum or product by rounding each number to the
indicated place value.**

7. $76 + 148$; tens   **8.** 9.46×18; tens   **9.** $10.2 \div 1.975$; ones

_____   _____   _____

10. $412 + 709 + 99$; hundreds **11.** 6.62×1.89; tens   **12.** $780.5 \div 7.88$; tens

_____   _____   _____

Check
Estimate each number by rounding it to the indicated place value.

13. 0.0748; hundredth   **14.** 1324.8; whole number   **15.** 18.996; tenth

_____   _____   _____

**Estimate the sum or product by rounding each number to the
indicated place value.**

16. 11.8×47; tens   **17.** $862 + 59.4$; hundreds   **18.** $9.2 \div 2.866$; ones

_____   _____   _____

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