

## ROUNDING

### What is Rounding?

- Rounding makes numbers that are easier to work with in your head.
- Rounded numbers are only **approximate**.
- An exact answer generally cannot be obtained using rounded numbers.
- Use rounding to get an answer that is close but that does not have to be exact.

### Rounding whole numbers

1. Determine what your rounding digit is and look to the right side of it. If the digit is 5, 6, 7, 8 or 9, round up. If the digit is 4, 3, 2 or 1, round down. All digits to the right of the rounding digit become 0.
2. Determine what your rounding digit is and look to the right side of it. If the digit is 5, 6, 7, 8 or 9, round up. If the digit is 4, 3, 2 or 1, round down. All digits to the right of the rounding digit will become 0.



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### Rounding Decimals

When rounding numbers involving decimals, there are 2 rules to remember:

1. Determine what your rounding digit is and look to the right side of it. If that digit is 4, 3, 2 or 1, simply drop all digits to the right of it.
2. Determine what your rounding digit is and look to the right side of it. If that digit is 5, 6, 7, 8 or 9 add one to the rounding digit and drop all digits to the right of it.

**Example:** 765.3682 becomes:

**1000** when rounded to the nearest thousand (**1000**)

**800** when rounded to the nearest hundred (**100**)

**770** when rounded to the nearest ten (**10**)

**765** when rounded to the nearest one (**1**)

**765.4** when rounded to the nearest tenth (**10<sup>th</sup>**)

**765.37** when rounded to the nearest hundredth (**100<sup>th</sup>**.)

**765.368** when rounded to the nearest thousandth (**1000<sup>th</sup>**)

### Try this!

Round 3,489

Hundred = \_\_\_\_\_

Thousand = \_\_\_\_\_

Ten = \_\_\_\_\_

Round 125.78 to the nearest

Tenths = \_\_\_\_\_

One = \_\_\_\_\_

Hundredths = \_\_\_\_\_



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