

Rounding Decimal Numbers



Rounding Rules



- 1st Step – Identify the place value being rounded and underline the digit in that place value.
- 2nd Step – Circle the digit to the right of the underlined number.

Rounding Rules



- 3rd Step –
 - If the circled number is 5 or higher, round the underlined digit up by 1.
 - If the circled number is 4 or lower, keep the underlined digit the same.
- 4th Step –
 - All digits starting with the circled number and moving to the right become zeros. It is ok to leave off terminal zeros.

Rounding Whole Numbers - Review



Round 474 to the closest hundred.

474

Underline the hundreds place

Circle the number to the right.

Since the circled number is >5 , round the 4 to a 5.

474 rounds to 500.

Now round 474 to the tens place.

474

Since the 4 is less than 5,
the 7 stays the same.

474 rounds to 470.

What about decimal numbers



The same rules apply!

Round 4.167 to the closest hundredths

4.167

Rounds to 4.170 or 4.17

Special Case! Rounding a 9



Round 2.197 to the closest hundredths

The 9 would round to a 10.

It would become 2.200 or 2.2

Round 4.95 to the closest tenth

4.95 rounded to the nearest
tenth is 5.0

Molly has \$16 in her pocket

She buys:

- 3 hotdogs @ \$1.89 each
- 3 milkshakes @ \$2.19 each
- 3 Large French fries @ \$1.79 each

Does she have enough money?

Gas costs \$1.79 per gallon

I'm running on empty and I have a 20 gallon tank on my truck.....

About how much will it cost to fill up?

Try these



Round to tenths:

4.26

5.82

0.38

Round to hundredths

18.783

9.458

9.998