

# Decimals

## How do I round decimal numbers?

Follow this procedure:

**Step 1)** Determine the place value where you want to round. **Underline** that number.

Example A) Round 3546 to the *hundreds* position: 3546

Example B) Round 3.574 to the *hundredths* position: 3.574

Example C) Round 1.579 to the *tenths* position: 1.579

**Step 2)** Now look at the number immediately to the **right** of the underlined number.

Example A) 3546

Example B) 3.574

Example C) 1.579

If that number is *less than 5*:

- Replace all numbers to the right of the underlined number with zeroes.

Example A) 3546 will round to **3500**

- If the numbers to the right of the underlined numbers are *decimal digits*, you can discard them.

Example B) 3.574 will round to **3.57**

If that number is *5 or above*:

- Round the underlined number UP by increasing its value by 1. Then replace all digits to the right of it with zeroes. If the zeroes are decimal digits, you can discard them.

Example C) 1.579 rounds to **1.6**

### Some more examples:

Round 1.153 to the tenths position:

1.153 → 1.2

Round 0.008 to the hundredths position:

0.008 → 0.01

Round 2.9525 to the thousandths position:

2.9525 → 2.953

Round 30.95 to the nearest whole number:

30.95 → 31

Copyrighted.

Peter C. Esser and Southwest Wisconsin Technical College (2001)