

Lesson 7: Rounding Decimals

Purpose of Lesson: You will round decimals to the nearest tenths, hundredths, and thousandths.

We have already been rounding numbers; let's review the process, and apply the skill to decimals. Follow these steps:

- 1) **Underline** the digit in the place you are rounding to.
- 2) A. If the digit to the right of the **underlined digit** is *greater than or equal to 5*, go to the next higher number.

B. If the digit to the right of the underlined digit is less than 5, leave the **underlined digit** the same.
- 3) Drop all the digits to the right of the **underlined digit**.

Let's round 4.68 to the nearest tenth!

- 1) Underline the 6 in the tenths place 4.**6**8
- 2) The digit to the right is an 8. Since 8 is greater than 5, we round up to the next number, 7
- 3) Drop the digit to the right of the 7
- 4) Using \approx as our rounding sign, the answer is $4.68 \approx 4.7$

Take Lesson 7 Quiz 1

Let's round 0.164 to the nearest hundredth!

- 1) Underline the 6 in the hundredths place. 0.1**6**4
- 2) The digit to the right of the 6 is a 4, since four is less than 5, leave the underlined digit the same.

3) Drop the digit to the right of the 6

4) $0.164 \approx 0.16$

Now it's your turn!

Take Lesson 7 Quiz 2

Let's round 3.0096 to the nearest thousandth.

1) Underline the 9, the digit in the **thousandths** place. 3.0096

2) The digit to the right of the 9 is 6. Six is greater than 5, so go to the next greater number, 10.

Write 0 in the **thousandths** place and 1 in the **hundredths** place.

3) Drop the digit to the right of the thousandths place.

4) $3.0096 \approx 3.010$

Remember that 3.010 is equivalent to 3.01. In this case, we must keep the number up to the thousandths. Be careful when rounding up from 9. The next number is 10.



Let's try some rounding to thousandths!

Take Lesson 7 Quiz 3

Take Lesson 7 Quiz 4