ROUNDING DECIMALS

Sometimes when you divide numbers, the answer is a never-ending number. For example:

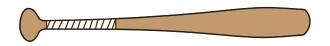3 ÷ 9 = 0.3333333333333333333333333333333333333333333333333333333

Those 3s could go forever! Luckily, we are allowed to round numbers to make them shorter.

In baseball, we often round numbers to the thousandths place, which means we'll have three digits on the right side of the decimal point. In that case, we'd round this number to 0.333.

How to Round Numbers

1. Decide which digit to round to:

- Let's round 562.75 to a whole number. That means the last digit will be just left of the decimal point.

2. Look at the digit to the right of the last digit.

- That's 7, which is the first digit on the right side of the last digit.
- If this number is 0, 1, 2, 3 or 4, we **round down**, and our final number is 562.
- If this number is 5, 6, 7, 8 or 9, we **round up**, and our final number is 563.

This makes sense because 562.75 is closer to 563 than it is to 562.

Give yourself some practice on the next page.

ROUNDING DECIMALS

Round these numbers to **whole numbers**:

287.32

901.8

12.0913442

6,843.36

37.9

Round these numbers to the **tenths place**:

12.80234

453.36

1.97

56.873

9,308.34

Round these numbers to the **hundredths place**:

45.1074

9.008

412.3903

0.352

706.429

Round these numbers to the **thousandths place**:

908.87321

4.50892

32.8543

0.2666666

812.3845