Place Value Rounding Notes

Rounding!
Which number is it closer to?

4.56 - - - > 4.6

12.3 < - - - - 12.31

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

Rounding

What is rounding?

Rounding is replacing a number with a number that is
_____ and _____ the same size.

Why do we round?

Rounding helps us _____ or get a better
understanding of about how much something is.

"Rules for Rounding"

1. Underline the place you are rounding to.
2. Look at the digit to the right.
3. If the is number 0-4, the digit you are rounding stays the same.
4. If the is number is 5-9, the digit you are rounding goes up.
5. The numbers to right of the rounded digit, turn to zero.
6. The numbers to the left of the rounded digit, stay the same.

Let's look at rounding a number to the nearest WHOLE number (ones place)
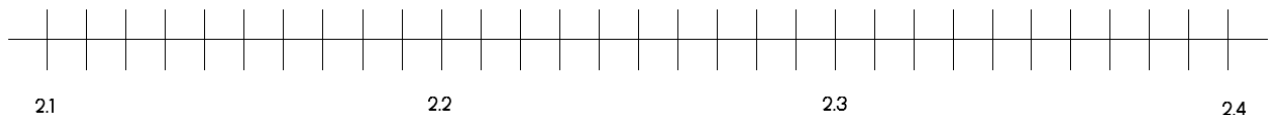
Round 2.7 and 2.3 to the nearest whole number.
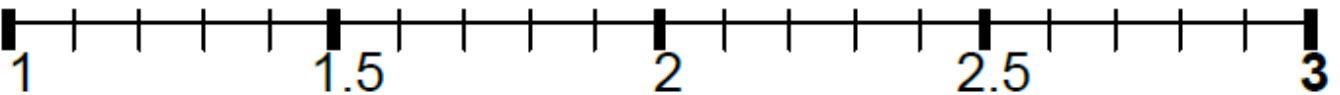
What do we notice about these numbers and why they round to 2 or 3?
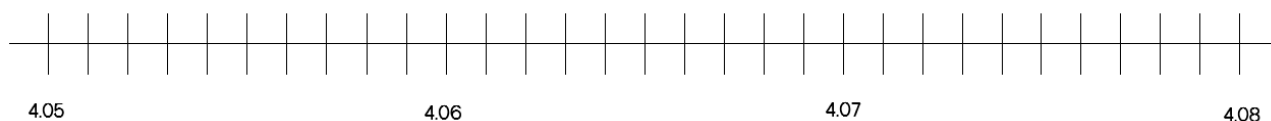

Let's round a number to the nearest tenth.

Round 2.12, 2.28, and 2.34 to the nearest tenth.

2.1   2.2   2.3   2.4

Why do the numbers round the way they do?

Let's round a number to the nearest hundredth.

Round 4.053 and 4.077 to the nearest tenth.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
4.05   4.06   4.07   4.08

Why do the numbers round the way they do?

John and Karley are trying to round 5.39 to the nearest tenth. Their answers are below. Explain what each student did incorrectly.

John	0.40	
Karley	5.49	

Which of the following numbers will stay the same when rounded to the nearest tenth? Choose all that apply.

a. 5.061
b. 4.912
c. 6.778
d. 4.312
e. 5.108

Place Value Rounding Notes

Answer Key

4.56 - - - > 4.6

12.3 < - - - - 12.31

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

Rounding

What is rounding?

Rounding is replacing a number with a number that is __simpler_____ and ____ approximately_____ the same size.

Why do we round?

Rounding helps us __ estimate _____ or get a better understanding of about how much something is.

"Rules for Rounding"

1. Underline the place you are rounding to.
2. Look at the digit to the right.
3. If the is number 0-4, the digit you are rounding stays the same.
4. If the is number is 5-9, the digit you are rounding goes up.
5. The numbers to right of the rounded digit, turn to zero.
6. The numbers to the left of the rounded digit, stay the same.

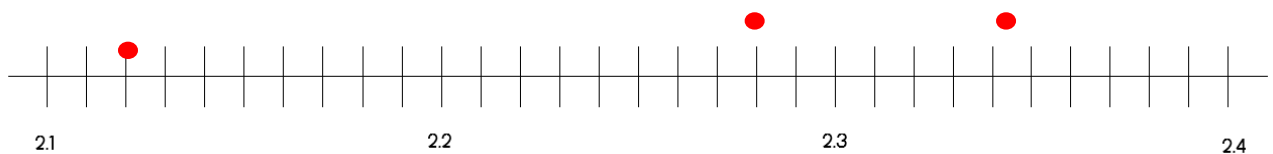Let's look at rounding a number to the nearest WHOLE number (ones place)

Round 2.7 and 2.3 to the nearest whole number.
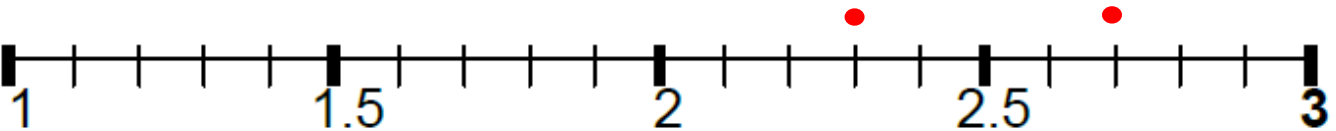
What do we notice about these numbers and why they round to 2 or 3? They are closer to the number they round to.

Let's round a number to the nearest tenth.

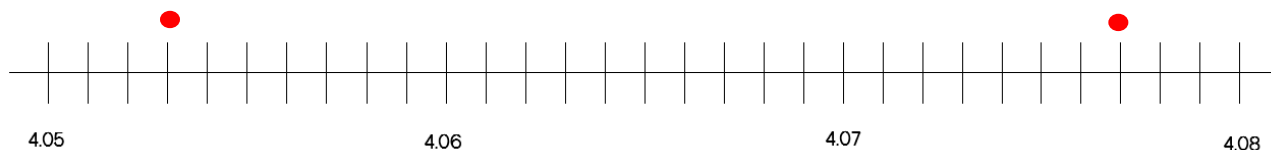Round 2.12, 2.28, and 2.34 to the nearest tenth.

Why do the numbers round the way they do?

They are closer to the number they round to.

Let's round a number to the nearest hundredth.

Round 4.053 and 4.077 to the nearest tenth.

| 4.05 | 4.06 | 4.07 | 4.08 |

Why do the numbers round the way they do?

They are closer to the number they round to.

John and Karley are trying to round 5.39 to the nearest tenth. Their answers are below. Explain what each student did incorrectly.

John	0.40	John rounded the tenths place correctly but changed ALL numbers to zeros. He should have kept the ones place the same.
Karley	5.49	Karley rounded the tenths place correctly but forgot to turn the hundredths place to a zero. Rounding makes number approximate.

Which of the following numbers will stay the same when rounded to the nearest tenth? Choose all that apply.

a. 5.061
b. 4.912
c. 6.778
d. 4.312
e. 5.108

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