5ᵗʰ Grade Math

We will not use the Eureka Math Topic C curriculum for our Rounding unit. We are using the Connecticut State Department of Education Mathematics Instructional Cycle Guide – Rounding Decimals (5.NBT.A.4) curriculum.

OBJECTIVE

- Round a given decimal to any place using place value understanding and number lines.

Words to know

- Thousandths/Hundredths/Tenths
- Decompose
- Decimal Fraction
- Rounding

Things to Remember!

Decompose – showing the different ways a number can be separated into the most of each place value unit
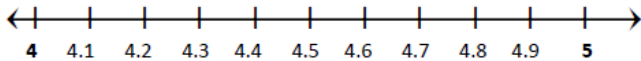
Rounding – A strategy to find about how much or how many by expressing a number closest to a place value (whole/ones, tenths, etc.)
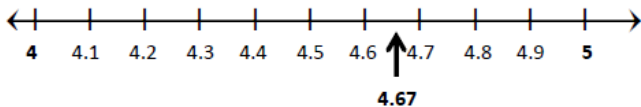

Rounding to the nearest WHOLE NUMBER:

Round 4.67 to the nearest WHOLE NUMBER.

1. THINK: 4.67 is in-between what two whole numbers?
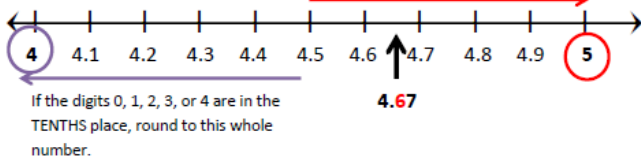
   *4.67 is **in-between 4 and 5.***

2. Next, locate 4.67 on the number line.

   4.67

3. THINK: Which whole number is 4.67 closest to?

   If the digits 5, 6, 7, 8, or 9 are in the TENTHS place, round to this whole number.

   4.67

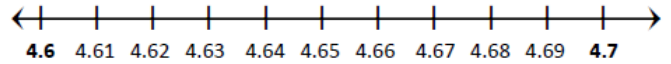   If the digits 0, 1, 2, 3, or 4 are in the TENTHS place, round to this whole number.

4. THINK: There is a "6" in the tenths place, so 4.67 is closest to 5. **SO, 4.67 rounds to 5.**
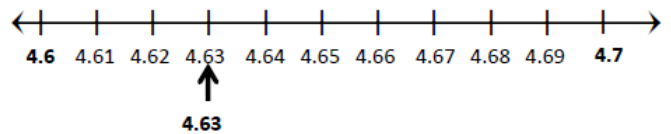

Rounding to the nearest TENTH:

Round 4.63 to the nearest TENTH.

1. THINK: 4.63 is in-between what two tenths?
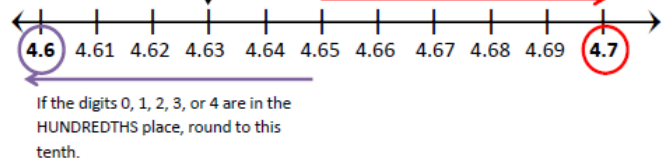
   *4.63 is **in-between 4.6 and 4.7.***

2. Next, locate 4.63 on the number line.

   4.63

3. THINK: Which tenth is 4.63 closest to?

   4.63

   If the digits 5, 6, 7, 8, or 9 are in the HUNDREDTHS place, round to this tenth.

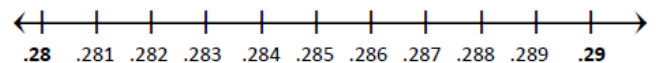   If the digits 0, 1, 2, 3, or 4 are in the HUNDREDTHS place, round to this tenth.

4. THINK: There is a "3" in the hundredths place, so 4.63 is closest to 4.6. **SO, 4.63 rounds to 4.6. .**
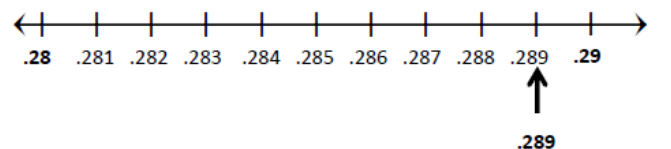

Rounding to the nearest HUNDREDTH:

Round 0.289 to the nearest HUNDREDTH.

1. THINK: 0.289 is in-between what two hundredth?

   *0.289 is **in-between 0.28 and 0.29.***
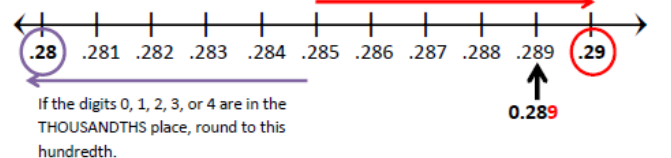

2. Next, locate 0.289 on the number line.

   .289

3. THINK: Which hundredth is 0.289 closest to?

   If the digits 5, 6, 7, 8, or 9 are in the THOUSANDTHS place, round to this hundredth.

   0.289

   If the digits 0, 1, 2, 3, or 4 are in the THOUSANDTHS place, round to this hundredth.

4. THINK: There is a "9" in the thousandths place, so 0.289 is closest to 0.29. **SO, 0.289 rounds to 0.29 .**