

# ROUNDING

## A ROUNDING TO THE NEAREST TEN

**Discover:** Imagine you have 29 marbles. If a friend asks how many you have, you could count every single one. But what if you wanted to give a quick answer? You might say, "I have about 30 marbles."

When you do this, you are **rounding**. We round numbers to make them simpler and easier to work with.

### Definition Rounding

**Rounding** means changing a number to a simpler nearby number.

### Method Rounding to the Nearest Ten

To round to the nearest ten, we only need to look at the **ones digit**.

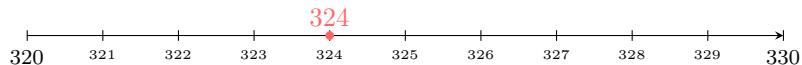
- If the ones digit is **4 or less** (0, 1, 2, 3, 4), we **round down**. The tens digit stays the same, and the ones digit becomes 0.
- If the ones digit is **5 or more** (5, 6, 7, 8, 9), we **round up**. We add one to the tens digit, and the ones digit becomes 0.

**Ex:** Round 324 to the nearest ten.

*Answer:*

1. **Identify the ones digit:** The number is 324. The ones digit is 4.
2. **Apply the rule:** Since 4 is "4 or less," we round down. The tens digit (2) stays the same.
3. **Result:** 324 rounded to the nearest ten is **320**.

The number line shows that 324 is closer to 320 than it is to 330.



## B ROUNDING TO THE NEAREST HUNDRED

**Discover:** Just as we can round to the nearest ten, we can also round to the nearest hundred for an even simpler number.

- Instead of saying "A school has 372 students," you could say, "The school has about 400 students."

This is helpful when you don't need the exact number.

### Method Rounding to the Nearest Hundred

The rule for rounding is the same! But to round to the nearest hundred, we look at the digit one place to the right: the **tens digit**.

- If the tens digit is **4 or less** (0, 1, 2, 3, 4), we **round down**. The hundreds digit stays the same, and the tens and ones digits become 0.
- If the tens digit is **5 or more** (5, 6, 7, 8, 9), we **round up**. We add one to the hundreds digit, and the tens and ones digits become 0.

**Ex:** Round 324 to the nearest hundred.

*Answer:*

1. **Identify the tens digit:** The number is 324. The tens digit is 2.
2. **Apply the rule:** Since 2 is "4 or less," we round down. The hundreds digit (3) stays the same.
3. **Result:** 324 rounded to the nearest hundred is **300**.

The number line shows that 324 is much closer to 300 than it is to 400.

