ROUNDING

A ROUNDING TO THE NEAREST TEN

Discover: Imagine you have 29 marbles. To quickly tell a friend, you might say, "I have about 30 marbles." This is rounding!

We round numbers to:

- Make calculations easier.

- Make numbers simpler to understand and remember.

> **Definition Rounding**
>
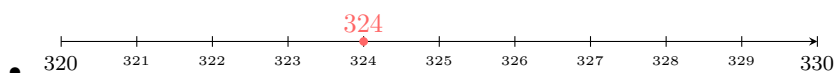> Rounding means finding the closest ten or hundred to a number.

> **Method Rounding to the Nearest Ten**
> - If the ones digit is 0, 1, 2, 3, or 4, change it to 0. This is called **rounding down**.
> - If the ones digit is 5, 6, 7, 8, or 9, change it to 0 and increase the tens digit by 1. This is called **rounding up**.

Ex: Round 324 to the nearest ten.

Answer:

- The ones digit is $4 < 5$, so change it to 0. After rounding, 324 becomes 320.

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  324 is between 320 and 330 but closer to 320.

B ROUNDING TO THE NEAREST HUNDRED

Discover: Sometimes, we round numbers to make them easier to work with. For example:

- Instead of saying "I have 372 marbles," you could say, "I have about 400 marbles."

- Instead of saying "I have 324 marbles," you could say, "I have about 300 marbles."

This is rounding to the nearest hundred.

> **Method Rounding to the Nearest Hundred**
> - If the digit in the tens column is 0, 1, 2, 3, or 4, replace the tens and ones digits with 0. This is called **rounding down**.
> - If the digit in the tens column is 5, 6, 7, 8, or 9, replace the tens and ones digits with 0 and add 1 to the hundreds digit. This is called **rounding up**.
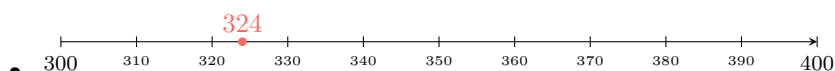
Ex: Round 324 to the nearest hundred.

Answer:

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Hundreds	Tens	Ones
3	2	4

- The tens digit is $2 < 5$. Replace the tens and ones digits with 0:

Hundreds	Tens	Ones
3	0	0

- After rounding, 324 becomes 300.

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  324 is closer to 300 than 400.