Round 4-Digit Numbers

Objective Round 4-digit numbers to the nearest ten, hundred, or thousand.

▶ **Learn by Example**

You can use what you know about rounding 2- and 3-digit numbers to help you round 4-digit numbers.

The musical *Cats* was one of the longest-running shows on Broadway. It ran almost 20 years with 7,485 performances. What is 7,485 rounded to the nearest thousand?

Think

Round up means to increase the underlined digit by 1.

Round down means to leave the underlined digit unchanged.

1 Underline the digit in the place you are rounding to.

7, 4 8 5

↑ thousands place

2 Circle the digit to the right of the underlined digit.

7,④8 5

↑ circled digit

3 If the circled digit is 5 or greater, round up. If the circled digit is less than 5, round down.

7,④8 5 ← 4 is less than 5, so round down.
↓
7,0 0 0

Solution: 7,485 rounded to the nearest thousand is 7,000.

Other Examples

A Round 7,485 to the nearest ten.

7,48⑤ rounds to 7,490.

B Round 7,485 to the nearest hundred.

7,4⑧5 rounds to 7,500.

Round to the nearest thousand, the nearest hundred, and the nearest ten.

1. 3,267   **2.** 7,434   **3.** 9,720   **4.** 1,465

123 Math Talk Is it possible for a four-digit number to round to a three-digit number? Explain.

Ask Yourself
- To which place am I rounding?
- What digit is to the right of the place I am rounding to?