LESSON MAKER PRO

# Place Value Jumps

*Find 100, 1,000, or 10,000 more or less in your head.*

**GRADE 3 · 3.N.1.3**

**3.N.1.3** "Applying knowledge of place values, use mental strategies (no written computations) to find 100 more or 100 less than a given number, 1,000 more or 1,000 less than a given number, and 10,000 more or 10,000 less than a given number..."

NAME _____ DATE _____

Calculate mentally first. Record only the final answer; then explain your mental strategy aloud. Do not write calculations.

### THINK BY PLACE

Compute in your head; write only final answers. Explain your strategy aloud afterward. To find 100, 1,000, or 10,000 more or less, think about the hundreds, thousands, or ten-thousands place. If you cross a thousand or ten thousand, use that nearby number to help you make the jump in your head.

### MENTAL STRATEGY EXAMPLE

What is 100 more than 58,950?

1. 58,950 is 50 away from 59,000.
2. Use 50 of the 100 to reach 59,000.
3. Use the other 50 to reach 59,050.

**Answer: 59,050**

## PRACTICE 6 problems

**1** What is 100 more than 24,680?

**Final answer only** _____

**2** What is 100 less than 42,030?

**Final answer only** _____

**3** What is 1,000 more than 39,740?

**Final answer only** _____

**4** What is 1,000 less than 50,240?

**Final answer only** _____

**5** What is 10,000 more than 67,315?

**Final answer only** _____

**6** What is 10,000 less than 80,406?

**Final answer only** _____

## APPLY IT Solve mentally; record the answer

**1** Jo has 19,960 points in a video game. A bonus adds 100 points. How many points does Jo have now?

**Final answer only** _____

**2** A school library has 12,480 e-books. A city library has 10,000 more e-books. How many e-books does the city library have?

**Final answer only** _____

## CHALLENGE One step up

Mia says 48,990 is 90 less than 49,000. Is Mia right? Find 1,000 more than 48,990 and record only the final answer. Then explain your thinking aloud.

**Final answer only** _____

**ANSWER KEY**

# Place Value Jumps

**GRADE 3 · 3.N.1.3**

Ask students to calculate mentally before recording final answers. Hear their strategy explanations aloud; the worked reasoning below is for teacher reference, not a requirement to write calculations.

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | What is 100 more than 24,680? | **24,780** |
| 2 | What is 100 less than 42,030? | **41,930** |
| 3 | What is 1,000 more than 39,740? | **40,740** |
| 4 | What is 1,000 less than 50,240? | **49,240** |
| 5 | What is 10,000 more than 67,315? | **77,315** |
| 6 | What is 10,000 less than 80,406? | **70,406** |

## PART 2 · APPLY IT

1. **20,060 points** Jo needs 40 points to reach 20,000. The remaining 60 points bring the total to 20,060.
2. **22,480 e-books** Increase the ten-thousands digit by 1. The city library has 22,480 e-books.

## CHALLENGE

**No. 48,990 is 10 less than 49,000, so 1,000 more is 49,990.**

Have students compute mentally first and record only final answers. Ask for oral explanations; shown steps model mental reasoning, not written procedures to reproduce. Accept a correct mental place-value strategy or a nearby-number strategy. In the challenge, students should identify the gap from 48,990 to 49,000 as 10, not 90.