LESSON MAKER PRO

Digit Detectives

Use place value to round whole numbers.

GRADE 4 · MA.4.NSO.1.4

MA.4.NSO.1.4 "Round whole numbers from 0 to 10,000 to the nearest 10, 100 or 1,000."

NAME _____ DATE _____

ROUND WITH ONE LOOK

Find the digit in the place you are rounding to. Look at the digit just to its right. If it is 5 or more, increase the rounding digit by 1. If it is 4 or less, keep the rounding digit the same, then change all digits to the right to 0.

WORKED EXAMPLE

Round 6,482 to the nearest 100.

1. The hundreds digit is 4.
2. The tens digit is 8.
3. Since 8 is 5 or more, round 4 up to 5.
4. Change the tens and ones digits to 0.

Answer: 6,500

PRACTICE 6 problems

1 Round 347 to the nearest 10.

ANSWER _____

2 Round 2,641 to the nearest 100.

ANSWER _____

3 Round 8,509 to the nearest 1,000.

ANSWER _____

4 Round 9,950 to the nearest 10.

ANSWER _____

5 Round 1,204 to the nearest 100.

ANSWER _____

6 Round 5,499 to the nearest 1,000.

ANSWER _____

APPLY IT Show your work

1 During a school fun run, students completed 2,651 laps. Round the number of laps to the nearest 100 to make an estimate.

WORK SPACE

ANSWER _____

2 A sports stadium has 9,499 seats. Round the number of seats to the nearest 1,000.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A scoreboard showed 7,450 points. Round the number to the nearest 10, nearest 100, and nearest 1,000. Explain why the three rounded numbers are not all the same.

WORK SPACE AND ANSWER

ANSWER KEY # Digit Detectives

GRADE 4 · MA.4.NSO.1.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Round 347 to the nearest 10.	**350**
2	Round 2,641 to the nearest 100.	**2,600**
3	Round 8,509 to the nearest 1,000.	**9,000**
4	Round 9,950 to the nearest 10.	**9,950**
5	Round 1,204 to the nearest 100.	**1,200**
6	Round 5,499 to the nearest 1,000.	**5,000**

PART 2 · APPLY IT

1. **2,700 laps** The hundreds digit is 6, and the tens digit is 5. Round the 6 up to 7, so 2,651 rounds to 2,700.
2. **9,000 seats** The thousands digit is 9, and the hundreds digit is 4. Keep the 9 the same and change the other digits to 0, so the number rounds to 9,000.

CHALLENGE

Nearest 10: 7,450. Nearest 100: 7,500. Nearest 1,000: 7,000. Each rounding place uses a different digit to its right to decide whether to round up or keep the digit the same.

Accept answers with or without commas. For the challenge, accept any correct explanation that identifies that different target places use different digits to decide rounding.