

Grade 4 - Rounding Whole Numbers - Test Answer Key

Common Core 4.NBT.A.3 · maths-pdf.fr/en/

Use this answer key to score the rounding test. Each solution shows the rounding place and the steps, and the scoring note tells how points are awarded. Total: 20 points.

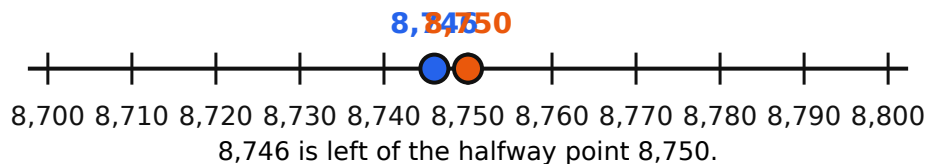
Grade 4 · Common Core State Standards: **4.NBT.A.3**

Question 1 - Round to the place [2 pts]

- a. The ones digit 2 is less than 5, so keep the 7: 470.
- b. The tens digit 4 is less than 5, so keep the 8 hundreds: 6,800.
- c. The hundreds digit 0 is less than 5, so keep the 3 thousands: 53,000.
- d. The ten thousands digit 8 is 5 or more, so round 2 up to 3: 300,000.

Scoring: half a point for each correct answer.

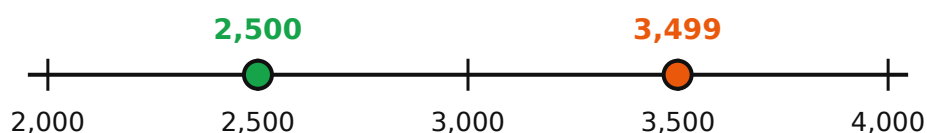
Question 2 - Read the number line [2 pts]



- a. The point is between 8,740 and 8,750. It is closer to 8,750: 8,750.
- b. Between 8,700 and 8,800, the halfway point is 8,750. The point is left of 8,750, so it rounds down: 8,700.

Scoring: 1 point for each correct answer.

Question 3 - Range of numbers [2 pts]



2,500 and 3,499 are the ends of the range that rounds to 3,000.

Halfway between 2,000 and 3,000 is 2,500, which rounds up to 3,000. 2,499 rounds down to 2,000.

Halfway between 3,000 and 4,000 is 3,500, which rounds up to 4,000. 3,499 rounds down to 3,000.

Smallest: 2,500. Greatest: 3,499.

Scoring: 1 point for each correct number.

Question 4 - Estimate [2 pts]

- a. 6,348 rounds to 6,000; 2,719 rounds to 3,000. $6,000 + 3,000 = 9,000$. **about** 9,000
- b. 73,462 rounds to 70,000; 28,905 rounds to 30,000. $70,000 - 30,000 = 40,000$. **about** 40,000

Scoring: 1 point for each estimate. Give half a point if the numbers are rounded correctly but the final arithmetic is wrong.

Question 5 - One number, three places [2 pts]

Ten thousand: 1 is followed by 6, so round up to 420,000.

Thousand: 6 is followed by 5, so round up to 417,000.

Hundred: 5 is followed by 7, so round up to 416,600.

420,000; 417,000; 416,600

Scoring: 1 point for two correct answers, 2 points for all three.

Question 6 - Attendance [2 pts]

A number rounds to 12,000 from 11,500 up to 12,499.

11,499 is below 11,500, so it rounds to 11,000. It could **not** be the exact attendance.

12,500 is halfway and rounds up to 13,000. It could **not** be the exact attendance.

Scoring: 1 point for each correct answer with a reason.

Question 7 - Concert tickets [3 pts]

- a. 14,628 rounds to 15,000 . 9,375 rounds to 9,000 .
- b. $15,000 + 9,000 = 24,000$. **about** 24,000
- c. $15,000 - 9,000 = 6,000$. **about** 6,000

Scoring: 1 point for each part.

Question 8 - Find the mistake [3 pts]

- a. The hundreds digit is 3 and the digit to its right is 9, so round up: 7,400.
- b. Sofia kept the hundreds digit. The digit to its right (9) is 5 or more, so the hundreds digit must go up by 1.
- c. The thousands digit is 7 and the digit to its right is 3, so keep it: 7,000.

Scoring: 1 point for each part.

Question 9 - Is it reasonable? [2 pts]

3,874 rounds to 4,000 . 4,129 rounds to 4,000 . The estimate is 8,000 .

7,003 is far from 8,000 , so it is not reasonable. He forgot to regroup.

Correct sum: $3,874 + 4,129 = 8,003$. 8,003

Scoring: 1 point for the estimate and decision. 1 point for 8,003.

Total
20 points