

Grade 4 - Rounding Whole Numbers - Answer Key

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

Use this answer key to check each rounding problem. Every solution names the rounding place, shows the digit to its right, and gives the rounded number in bold. Estimates are compared with exact answers so you can see why they are reasonable.

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

Exercise 1 - Nearest ten

The tens digit is 8. The digit to its right is 3, which is less than 5, so keep 8.

683 rounds to 680.

Exercise 2 - Nearest hundred

The hundreds digit is 2. The digit to its right is 5, so round up to 3.

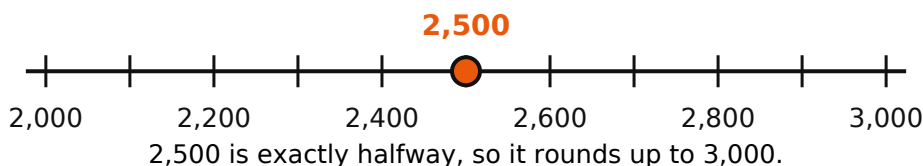
4,300

Exercise 3 - Nearest thousand

The thousands digit is 8. The digit to its right is 7, so round up to 9.

39,000

Exercise 4 - Halfway number



The number line shows 2,500 exactly halfway between 2,000 and 3,000. By the rule, halfway numbers round up.

3,000

Exercise 5 - Nearest ten thousand

The ten thousands digit is 7. The digit to its right is 6, so round up to 8.

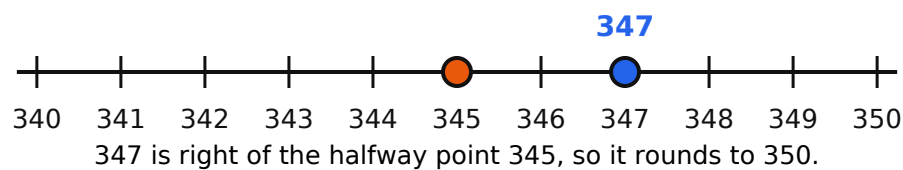
80,000

Exercise 6 - Nearest hundred thousand

The hundred thousands digit is 4. The digit to its right is 8, so round up to 5.

500,000

Exercise 7 - Use the number line



347 is 7 steps from 340 and 3 steps from 350, so it is closer to 350.

350

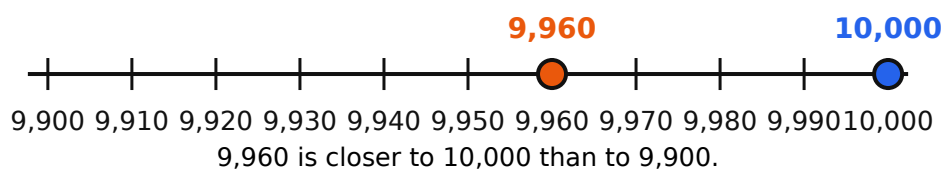
Exercise 8 - Rounding a 9

The tens digit is 9 and the digit to its right is 9, so round up. 9 tens plus 1 ten is 10 tens, which carries.

$$990 + 10 = 1,000$$

1,000

Exercise 9 - Carrying across thousands



The hundreds digit is 9. The digit to its right is 6, so round up. 99 hundreds plus 1 hundred is 100 hundreds.

10,000

Exercise 10 - Another halfway number

The thousands digit is 4. The digit to its right is 5, so round up to 5.

25,000

Exercise 11 - Three places

Ten thousand: the digit 5 is followed by 8, so round up to 360,000.

Thousand: the digit 8 is followed by 4, so keep it: 358,000.

Hundred: the digit 4 is followed by 2, so keep it: 358,400.

360,000; 358,000; 358,400

Exercise 12 - Smallest and greatest

Numbers from halfway below 700 up to just under halfway above 700 round to 700. Halfway below is 650 and halfway above is 750.

650 rounds up to 700. 749 rounds down to 700. 750 rounds up to 800.

Smallest: **650**. Greatest: **749**.

Exercise 13 - Estimate a sum

4,862 rounds to 5,000. 2,139 rounds to 2,000.

$5,000 + 2,000 = 7,000$

about 7,000

Exercise 14 - Estimate a difference

52,816 rounds to 50,000. 19,374 rounds to 20,000.

$$50,000 - 20,000 = 30,000$$

about 30,000

Exercise 15 - Stadium crowd

Thousand: the 8 is followed by 7, so round up to 19: 19,000.

Hundred: the 7 is followed by 4, so keep it: 18,700.

19,000 ; 18,700

Exercise 16 - Road trip estimate

1,286 rounds to 1,300. 874 rounds to 900.

Estimate: $1,300 + 900 = 2,200$.

Exact: $1,286 + 874 = 2,160$.

The difference is only 40 miles, so the exact answer is reasonable.

Estimate 2,200 miles; **exact** 2,160 miles

Exercise 17 - Fundraiser change

\$3,482.00 rounds to \$3,500.00. \$2,961.00 rounds to \$3,000.00.

Estimate: $3,500 - 3,000 = 500$.

Exact: $3,482 - 2,961 = 521$.

about \$500.00 more; **exactly** \$521.00 more

Exercise 18 - Could it be the number?

A number rounds to 40,000 when it is from 35,000 up to 44,999.

35,999 is in the range (round up from 35,000). 38,420 is in the range. 44,100 is in the range.

45,000 rounds up to 50,000, so it is not.

35,999, 38,420, and 44,100

Exercise 19 - Is \$5,000 enough?

Nearest thousand: $2,000 + 2,000 + 1,000 = 5,000$. This estimate says she has exactly enough, which is not helpful.

Nearest hundred: $1,900 + 2,200 + 1,100 = 5,200$. This estimate says she does not have enough.

Exact: $1,879 + 2,246 + 1,125 = 5,250$.

Since \$5,250.00 is more than \$5,000.00, she is short by \$250.00. The hundreds estimate is more useful.

Nearest hundred; exact total \$5,250.00

Exercise 20 - Find the mistake

The tens digit is 9. The digit to its right is 5, which is 5 or more, so the 9 must round up. Liam kept it instead.

Correct: $6,490 + 10 = 6,500$, so 6,495 rounds to 6,500.

Nearest hundred: the hundreds digit is 4 and the digit to its right is 9, so round up to 6,500.

6,500 for both