

Lesson 15 Rounding Numbers to the Nearest Thousand, Ten Thousand, and Hundred Thousand

A.3.1.1: Round whole numbers (including whole dollar amounts) to the nearest ten, hundred, thousand, ten-thousand or hundred-thousand

You can follow these rules for rounding.

Rules for Rounding

Look at the digit to the right of the place you are rounding to.

If the digit is less than 5, do not change the digit in the place you are rounding to.

If the digit is 5 or more, round up the digit in the place you are rounding to.

EXAMPLE 1

A house sold for \$165,230. Round this amount to the nearest thousand.

STRATEGY Follow the rules for rounding.

STEP 1 Underline the digit in the thousands place.

165,230

STEP 2 Look at the digit just to the right.

165,230

STEP 3 Is the digit less than 5, or is it 5 or more?

The digit 2 is less than 5.

STEP 4 Should you round down or round up?

Round down. Change all digits to the right of the underlined digit to zeros.

165,000

SOLUTION 165,230 rounded to the nearest thousand is 165,000.

EXAMPLE 2

The population of a city is 267,945. Round this number to the nearest hundred thousand.

STRATEGY Follow the rules for rounding.

STEP 1 Underline the digit in the hundred thousands place.

267,945

STEP 2 Look at the digit just to the right.

267,945

STEP 3 Is the digit less than 5, or is it 5 or more?

The digit 6 is 5 or more.

STEP 4 Round up.

Increase the underlined digit by 1.

Change all digits to the right of the underlined digit to zero.

300,000

SOLUTION 267,945 rounded to the nearest hundred thousand is 300,000.

 **EXAMPLE 3**

Round 815,224 to the nearest ten thousand.

STRATEGY Follow the rules for rounding.

STEP 1 Underline the digit in the ten thousands place and look at the digit to the right.

815,224

STEP 2 Is the digit less than 5, or is it 5 or more?

The digit is 5.

STEP 3 Round up.

820,000

SOLUTION 815,224 rounded to the nearest ten thousand is 820,000.

What is 87,962 rounded to the nearest ten thousand?

Let's check it out.

Which digit is in the ten thousands place? _____

What is the digit to its right? _____

Is that digit less than 5 or is it 5 or more? _____

Do you round down or up? _____

How do you change the digit in the ten thousands place? _____

87,962 rounded to the nearest ten thousand is _____.



Sample Test Questions

- Round 14,203 to the nearest thousand.
A 14,000 C 14,300
B 14,200 D 15,000
- Round 778,205 to the nearest ten thousand.
A 700,000 C 780,000
B 770,000 D 800,000
- Round 859,000 to the nearest hundred thousand.
A 800,000 C 860,000
B 850,000 D 900,000
- Which of these numbers, when rounded to the nearest ten thousand, is 460,000?
A 459,304 C 468,402
B 465,492 D 471,304
- A national book club has 394,650 members. Round this number to the nearest hundred thousand.
A 300,000
B 350,000
C 390,000
D 400,000
- Which of these numbers, when rounded to the nearest hundred thousand, is 200,000?
A 238,492 C 284,058
B 250,394 D 299,485
- A local high school has 5,702 students. Round this number to the nearest thousand.
A 5,000 C 5,700
B 5,500 D 6,000
- A charity fund drive raises \$349,065. Round this amount to the nearest thousand.
A 300,000 C 350,000
B 349,000 D 400,000
- Which of these numbers, when rounded to the nearest thousand, is not 375,000?
A 375,499 C 375,592
B 375,128 D 374,872
- Last week, 60,500 people attended a football game. Round this number to the nearest ten thousand.
A 60,000 C 61,500
B 61,000 D 70,000