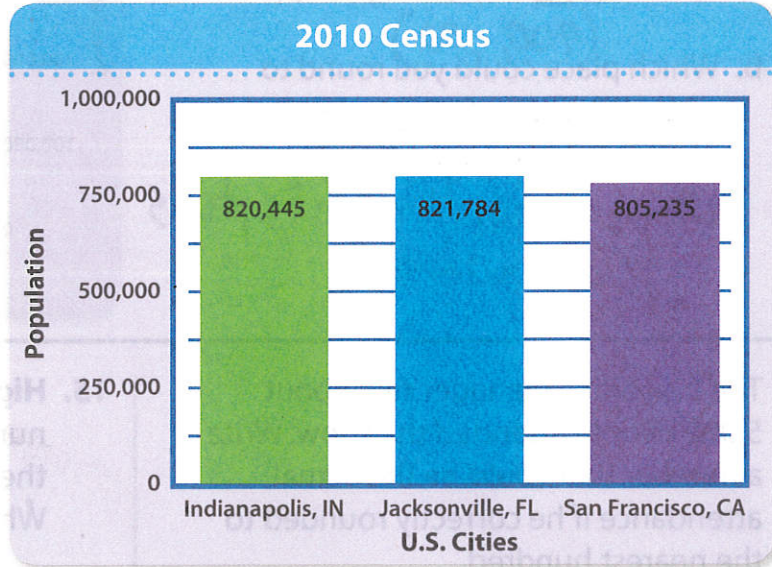Help   Practice   Tools   Games
        Buddy

Another Look!

The graph shows census data for three U.S. cities. Round each number to the nearest ten thousand.

> To round numbers, look at the digit in the place to the right of the place value the number is rounding to.

2010 Census

Population

1,000,000

750,000   820,445   821,784   805,235

500,000

250,000

0
Indianapolis, IN   Jacksonville, FL   San Francisco, CA
U.S. Cities

ten thousands
↓

8<u>2</u>0,445   When the digit to the right is 0, change
8**2**0,**000**   the rest of the digits to the right to 0.

8<u>2</u>1,784   When the digit to the right is 1, 2, 3, or 4,
8**2**0,**000**   change it and all the digits to the right to 0.

8<u>0</u>5,235   When the digit to the right is 5 or greater,
8**1**0,**000**   add one to the digit in the rounding place and change all the digits to the right to 0.

For **1–12**, round each number to the place of the underlined digit.

1. 1<u>6</u>0,656
   200,000

2. 1<u>4</u>9,590
   100,000

3. 117,8<u>2</u>1
   117,800

4. <u>7</u>5,254
   80,000

5. 2,4<u>2</u>0
   2,420

6. 900,9<u>8</u>5
   900,990

7. <u>4</u>40,591
   400,000

8. 2<u>0</u>5,000
   210,000

9. 58,<u>3</u>65
   58,000

10. 1,<u>8</u>76
    1,900
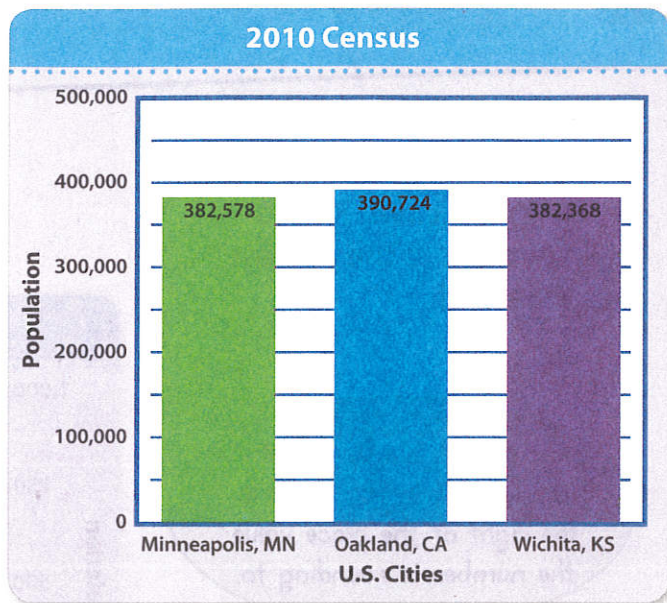
11. 61,2<u>2</u>9
    61,200

12. <u>7</u>,849
    8,000

13. **Math and Science** Use the data in the graph at the right.

a. Which place could you round to so that the rounded populations of all three cities are the same?

hundred thousand (400,000)

b. Which place could you round to so that the rounded populations of all three cities are different?

thousands, hundreds, tens (all work)

2010 Census

Population

500,000

400,000

Minneapolis, MN	Oakland, CA	Wichita, KS
382,578	390,724	382,368

300,000

200,000

100,000

0

U.S. Cities

14. The box office manager said about 5,000 people attended the show. Write a number that could be the actual attendance if he correctly rounded to the nearest hundred.

4979 → 5000

(49 tens)   (50 tens)

15. **Higher Order Thinking** A 5-digit number has the digits 0, 5, 7, 9, and 0. To the nearest thousand, it rounds to 80,000. What is the number? Explain.

79,500

500 rounds up to the next thousand, pushing 79 thousand up to 80,000

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16. Aisha thinks 1,275 rounded to the nearest hundred is 1,200 because "2 is less than 5."

Part A

What might be Aisha's misunderstanding about rounding?

She is looking at the PV she is rounding to to determine whether she rounds up or down.

Part B

Help Aisha correct her mistake by explaining rounding to the nearest hundred.

She needs to look at the PV next to the, PV she is rounding to. 1275 (7>5)