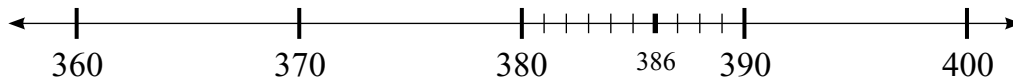


## Rounding Sample Lesson

### • Lesson on Rounding

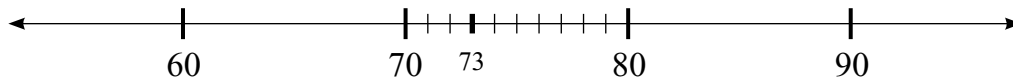
A. Remember that “rounding a number to the nearest ten” is finding the multiple of 10 which is closest to the number.

For example, on a number line, 386 is between 380 and 390. But it is closer to 390.

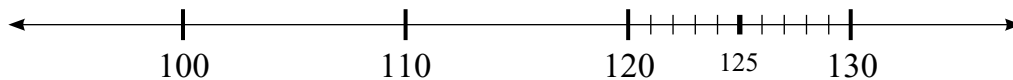


So when we “round 386 to the nearest ten”, we get 390.

If we round 73 to the nearest ten, we get 70; because 73 is closer to 70 than to 80.



Now notice that 125 is halfway between 120 and 130. So it isn't closer to one than to the other.



In cases like this, we will all agree to use the bigger number:

125, “rounded to the nearest ten”, is 130.

45, rounded to the nearest ten, is 50.

2815, rounded to the nearest ten, is 2820.

B. Rounding to the nearest hundred, or to the nearest thousand, follows this same reasoning. Notice these examples:

- i. 832 is closer to 800 than to 900. So  
832, “rounded to the nearest hundred”, is 800.
- ii. 2471, rounded to the nearest hundred, is 2500.
- iii. 650, rounded to the nearest hundred, is 700.
- iv. 4370, rounded to the nearest thousand, is 4000.
- v. 6521, rounded to the nearest thousand, is 7000.
- vi. 7800, rounded to the nearest thousand, is 8000.

C. Rounding is used to estimate quantities—to find out about how many, or about how much. These are examples of questions that can be answered using rounding.

a. Tillie has selected 4 items at a furniture store. The prices of the items are \$283, \$450, \$846, and \$72.

About how much will all four items cost?

Think: Round each price to the nearest \$100. This gives us \$300, \$500, \$800, and \$100—which is  $3 + 5 + 8 + 1$  hundreds. We can easily see this sum as 17 hundreds, or \$1700.

b. Miss Ellen's class plans to sell candy to make money for a trip. There are 23 students in the class, and they estimated that each student will sell about 36 boxes of candy.

About how many boxes should they order from the candy company?

60, 200, 400, 600, 800

Think: Round numbers to nearest ten:  $20 \text{ students} \times 40 \text{ boxes per student}$ . Answer is 800 boxes.