Number Sense

In this activity, you will learn how to represent the quotient of a problem in different formats. Work the problem below on paper, and then use your TI-73 Explorer™ as a visual model to understand the relationship between the divisor, the remainder and a fraction.



Daniel and Monika counted 308 reservation cards for the Senior Center banquet. How many round tables will they need to set up if each table can seat eight guests?

Engage

- 1. Turn on your TI-73 Explorer and press the MODE key
- **2.** Use the arrow keys to move the cursor over the words Normal, Float, Degree, A_b/c, and Autosimp. Press ENTER to highlight each of them
- 3. Press [2nd [QUIT] to return to the Home screen

Explore

- 1. Divide 308 : 8 ENTER
- 2. To find the quotient and remainder to a problem, use [INT÷] Example: 308 [2nd] [INT÷] 8 [ENTER]
- 3. Work the problem again, pressing 308 ÷ 8 F+D ENTER

Extend

- 1. For this problem, what answer format should Daniel and Monika use?
- 2. Describe the relationship between the divisor, remainder, and fraction
- 3. Identify a possible remainder if the quotient is 3 1/4, and then give a division problem that has the same quotient
- Check your work on questions 3 and 4 on the calculator, and see whether your conjecture is correct







