Name _____ Date _____

TEKS 5.1.A, 5.1.C, Building Toward 5.3.C

Whose Quotient Is It Anyway?

Let's use different strategies to divide by one-digit divisors.

We are a math community.
How can being part of a math community help you solve complex problems?

Warm-Up

eyes on teacher

Activity 1 Towers of Guitars and Cans

1 Willis Tower is 1,452 feet tall. Andrea wonders how many of her guitars it would take to reach the top of Willis Tower. Andrea's guitar is 3 feet long. How many of her guitars, lined end to end, would Andrea need to equal the height of Willis Tower?

Show your thinking.

answer: _____

Name _____ Date _____

Towers of Guitars and Cans (continued)

2 Andrea made $1,452 in 3 months recycling cans from her neighborhood. She made the same amount of money each month. How much money did Andrea make each month recycling cans?

Show your thinking.

answer: _____

3 **Discuss**

- What does the divisor represent in Problems 1 and 2? The quotient?
- How is your work in Problems 1 and 2 similar? Different?

Activity 2

Name _____ Date _____

Mystery Dividends

4 Without evaluating, use the digits 0–9 to make 3 different dividends to match the given place value of the quotient. Use each digit only once. You do not have to use all the digits.

Expression	Place value of quotient
_____ ÷ 4	tens
_____ ÷ 4	hundreds
_____ ÷ 4	thousands

Name _____ Date _____

Mystery Dividends (continued)

5 Discuss

Share your work with another pair.

- How did you determine each dividend?
- Compare your expressions in the first row of the table. Whose expression has a greater number of tens in the quotient? How do you know?