



### Do You Know How?



#### Dividing Decimals by 10, 100, and 1,000 (4-9)

Find each quotient. Use mental math.

- $18 \div 10$  **1.8**
- $18.4 \div 100$  **0.184**
- $0.037 \div 10$  **0.0037**
- $456.3 \div 100$  **4.563**
- $285.73 \div 1,000$  **0.28573**
- $4,238 \div 1,000$  **4.238**

#### Dividing Money by Two-Digit Divisors (4-10)

Find each quotient.

Check your answers by multiplying.

- $\$656.64 \div 36$  **\\$18.24**
- $\$247.35 \div 17$  **\\$14.55**
- $40 \overline{) \$650}$  **\\$16.25**
- $36 \overline{) \$61.80}$  **\\$1.72**
- $50 \overline{) \$122}$  **\\$2.44**
- $15 \overline{) \$36.45}$  **\\$2.43**

#### Dividing Decimals by Whole Numbers (4-11)

Find each quotient.

Check your answers by multiplying.

- $25.2 \div 18$  **1.4**
- $0.88 \div 55$  **0.016**
- $42 \overline{) 4.284}$  **0.102**
- $39 \overline{) 100.62}$  **2.58**
- $1.5 \div 60$  **0.025**
- $21 \div 60$  **0.35**

### Do You Understand?



**B. Decimal point; Sample answer: to divide by 10, I needed to move the decimal point left one place.**

- State the rule that you used to find each quotient using mental math. **See below.**
- In Exercise 1, what symbol did you put at the end of 18 and why was it needed before you could do mental math? **See above.**

**A. To find each quotient, I moved the decimal point in the dividend the same number of places to the left as the number of zeros in the divisor.**

**C. Sample answer: To make it possible to continue dividing to find the number of cents.**

- In Exercise 9, why did you need to place a decimal point and two zeros in the dividend? **See above.**
- In Exercise 10, why should you round your quotient to the nearest hundredth? **Sample answer: When dividing money, the quotient is rounded to the nearest cent, which is in the hundredths place.**

- Without doing the division, how do you know that the quotient in Exercise 13 must be between the numbers 1 and 2? **See below.**
- In Exercises 14, 15, 17, and 18, without doing the division, how do you know that the quotients will be less than 1? **Sample answer: The dividend is less than the divisor.**

**E. Sample answer:  $18 \times 1 = 18$  and  $18 \times 2 = 36$ . Since 25.2 is between 18 and 36, the quotient will be between 1 and 2.**