



Review

Do You Know How?



Dividing by Multiples of 10 (4-1)

Find each quotient. Use mental math.

- 240 ÷ 10
24
- 810 ÷ 90
9
- 20,000 ÷ 400
50
- 28,000 ÷ 70
400
- 4,800 ÷ 60
80
- 56,000 ÷ 80
700

Do You Understand?



- A** Explain how you found the quotients in Exercises 1–4.
See below.
- B** How is dividing 3,200 by 80 the same as dividing 320 by 8?
Sample answer: $3,200 \div 80$ is the same as $320 \text{ tens} \div 8 \text{ tens} = 320 \div 8 = 40$.
- A.** **Sample answer: $240 \div 10$ is the same as $24 \text{ tens} \div 1 \text{ ten} = 24$; $810 \div 90$ is the same as $81 \text{ tens} \div 9 \text{ tens} = 9$; $20,000 \div 400$ is the same as $200 \text{ hundreds} \div 4 \text{ hundreds} = 50$; $28,000 \div 70$ is the same as $2,800 \text{ tens} \div 7 \text{ tens} = 400$.**

Estimating with Two-Digit Divisors (4-2)

Estimate each quotient.

Sample answers are given.

- 424 ÷ 73
6
- 8,222 ÷ 91
90
- \$49.24 ÷ 12
\$5
- 452.7 ÷ 89
5
- 3,461 ÷ 47
70
- \$72.19 ÷ 68
\$1

D. Overestimate; Sample answer: The dividend was increased and the divisor was decreased, so the estimate will be greater than the actual quotient.

- C** Explain how you found your estimate for Exercises 7 and 8.
See below.
- D** Is your estimate for Exercise 9 an underestimate or an overestimate? Why?
See above.
- C.** **Sample answer: In Exercise 7, I rounded 424 to 420 and 73 to 70 to get $420 \div 70 = 6$. In Exercise 8, I used compatible numbers 8,100 for 8,222 and 90 for 91 to get $8,100 \div 90 = 90$.**

Problem-Solving Strategy: Try, Check, and Revise (4-3)

Solve. Write your answer in a sentence.

- Koko the poodle weighs fifteen more pounds than his owner's cat Fluffy. Together, they weigh 55 pounds. How much does each pet weigh? **Koko weighs 35 pounds, and Fluffy weighs 20 pounds.**
- There is 100 feet of fencing for a flower garden. If the length is to be 10 feet longer than the width, what will be the length and width? **The length will be 30 feet, and the width will be 20 feet.**

- E** What strategy did you use to solve Exercise 13?
Sample answer: try, check, and revise
- F** Describe the steps you used to solve this problem.
See below.
- G** What are two strategies you could have used to solve Exercise 14? **Sample answer: draw a picture and try, check, and revise.**
- F.** **Sample answer: I first tried Fluffy's weight as 15 pounds, which meant Koko's weight was 30 pounds, but together they only weighed 45 pounds. Then I tried Fluffy's weight as 20 pounds, which meant Koko's weight was 35 pounds, and together they weighed the desired 55 pounds, so I knew I had the answer.**