Name _____

Reteaching
5-2

Estimating Quotients with 2-Digit Divisors

You can use compatible numbers to estimate a quotient.

Find 175 ÷ 32.

Step 1: Find compatible numbers for 175 and 32.

32 rounds to 30.

Think: 18 can be divided evenly by 3.

180 is close to 175 and 30 is close to 32.

180 and 30 are compatible numbers.

Step 2: Divide. Use patterns to help you, if possible.

Think: 180 ÷ 30 is the same as 18 tens ÷ 3 tens.

18 ÷ 3 = 6
So, 180 ÷ 30 = 6.

Step 3: Check for reasonableness.

6 × 30 = 180

So, a good estimate of 175 ÷ 32 is 6.

Estimate each quotient using compatible numbers.

1. 298 ÷ 25 _____

2. 5,391 ÷ 77 _____

3. 24,303 ÷ 12 _____

4. 276 ÷ 42 _____

5. 1,347 ÷ 54 _____

6. 5,564 ÷ 91 _____

At Elmer Elementary School, fifth-grade students are saving money for a summer trip to Washington, D.C.

7. The money Percy has saved is how many times as great as the money James has saved?

_____

_____

Student	Amount Saved
Percy	$125
Emily	$ 80
George	$202
James	$ 41
Bertha	$159

Name _____

Practice
5-2

Estimating Quotients with 2-Digit Divisors

In **1** through **4**, estimate the quotients using compatible numbers.

1. 566 ÷ 81 = _____

2. 453 ÷ 93 = _____

3. 1,423 ÷ 69 = _____

4. 8,631 ÷ 10 = _____

5. If you use \$99.00 ÷ 11 to estimate \$98.69 ÷ 11, is \$9.00 greater than or less than the exact answer? Explain.

_____

_____

6. Suppose there are 19 students in a class. A teacher has 122 pencils and passes them out to the class. Estimate the number of pencils each student will receive. _____

7. At a department store, a package of 12 handkerchiefs costs \$58.99. Estimate how much each handkerchief costs. _____

8. Which is the closest estimate for 2,130 ÷ 33?

A 7 **B** 17 **C** 70 **D** 700

9. Explain how to estimate 498 ÷ 12.

_____

_____

