

Dividing by 1-Digit Divisors

Find $362 \div 5$.

Step 1: To decide where to place the first digit in the quotient, compare the first digit of the dividend with the divisor.

$3 < 5$, so the first digit in the quotient will not go in the hundreds place.

Now, compare the first two digits of the dividend with the divisor.

$36 > 5$, so the first digit in the quotient will go in the tens place.

Step 2: Divide the tens. Use multiplication facts and compatible numbers.

Think $5 \times ? = 35$.

Write 7 in the tens place of the quotient.

Multiply. $5 \times 7 = 35$

$$\begin{array}{r} 7 \\ 5 \overline{)36} \\ \underline{-35} \\ 1 \end{array}$$

Subtract. $36 - 35 = 1$

Compare. $1 < 5$

Bring down the ones.

Step 3: Divide the ones. Use multiplication facts and compatible numbers.

Think $5 \times ? = 10$.

Write 2 in the ones place of the quotient.

Multiply. $5 \times 2 = 10$

$$\begin{array}{r} 7 \text{ R}2 \\ 5 \overline{)362} \\ \underline{-35} \downarrow \\ 12 \\ \underline{-10} \\ 2 \end{array}$$

Subtract. $12 - 10 = 2$

Compare. $2 < 5$

There are no more digits to bring down, so 2 is the remainder.

Step 4: Check by multiplying.

$$5 \times 72 = 360 + 2 = 362$$

Divide. Check by multiplying.

1. $8 \overline{)863}$

2. $7 \overline{)249}$

3. $5 \overline{)365}$

4. $8 \overline{)448}$

5. $2 \overline{)499}$

6. $6 \overline{)396}$

7. Number Sense How can you tell before you divide 425 by 9 that the first digit of the quotient is in the tens place?

Name _____

Practice

4-5

Dividing by 1-Digit Divisors

Find each quotient.

1. $2\overline{)586}$

2. $3\overline{)565}$

3. $5\overline{)718}$

4. $4\overline{)599}$

5. $5\overline{)642}$

6. $6\overline{)354}$

7. $9\overline{)210}$

8. $8\overline{)927}$

The Paez family lives in Louisville, Kentucky, and has decided to take a road trip for their summer vacation.

9. How many miles will the Paez family drive each day if they decide to take 5 days to drive 865 mi to Dallas? _____
10. The Paez family decides they want to drive 996 mi to Boston in 6 days. How many miles will they drive each day? _____
11. **Reasonableness** If a staff of 9 people had to clean a hotel with 198 rooms, how many rooms would each person have to clean if they divided the rooms equally?
A 29 **B** 25 **C** 23 **D** 22
12. **Explain It** Explain how to check the quotient from a division problem.

Practice 4-5