

# Dividing Whole Numbers

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.  $5 \times 7 = 35$

$$\begin{array}{r} 7 \\ 5 \overline{)362} \\ \underline{-35} \\ 1 \end{array}$$

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.  $5 \times 2 = 10$

$$\begin{array}{r} 72 \text{ R}2 \\ 5 \overline{)362} \\ \underline{-35} \downarrow \\ 12 \\ \underline{-10} \\ 2 \end{array}$$

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 and then adding.

$$5 \times 72 = 360$$

$$360 + 2 = 362$$

In **1** through **6** find each quotient. Check your answers.

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?

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