

# 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.  $5 \times 2 = 10$

$$\begin{array}{r} 72R2 \\ 5 \overline{)362} \\ \underline{-35} \downarrow \\ 12 \\ \underline{-10} \\ 2 \end{array}$$

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.

$$\begin{aligned} 5 \times 72 &= 360 \\ 360 + 2 &= 362 \end{aligned}$$

Divide. Check by multiplying.

1.  $8 \overline{)955}$

2.  $7 \overline{)249}$

3.  $5 \overline{)365}$

4.  $8 \overline{)448}$

5.  $2 \overline{)499}$

6.  $6 \overline{)396}$

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