

G4-M3-Lesson 30

Divide. Check your solutions by multiplying.

1. $705 \div 2$

$$\begin{array}{r} 352 \text{ R1} \\ 2 \overline{) 705} \\ - 6 \\ \hline 10 \\ - 10 \\ \hline 05 \\ - 4 \\ \hline 1 \end{array}$$

I decompose 1 hundred as 10 tens. There are no other tens to distribute. So I keep dividing, this time in the tens.

Once I divide the 10 tens, there are no tens remaining. But I must keep dividing. There are still 5 ones to divide.

$$\begin{array}{r} 352 \\ \times 2 \\ \hline 704 \end{array}$$

$$\begin{array}{r} 704 \\ + 1 \\ \hline 705 \end{array}$$

2. $6,250 \div 5$

$$\begin{array}{r} 1250 \\ 5 \overline{) 6,250} \\ - 5 \\ \hline 12 \\ - 10 \\ \hline 25 \\ - 25 \\ \hline 00 \\ - 0 \\ \hline 0 \end{array}$$

This time when I divide, there are no ones to distribute. 0 ones divided by 5 is 0 ones. I place a 0 in the ones place of the quotient to show that there are no ones.

$$\begin{array}{r} 1,250 \\ \times 5 \\ \hline 6,250 \end{array}$$

3. $3,220 \div 4$

$$\begin{array}{r} 805 \\ 4 \overline{) 3,220} \\ - 3 \\ \hline 02 \\ - 0 \\ \hline 20 \\ - 20 \\ \hline 0 \end{array}$$

2 tens can't be evenly divided by 4, so I record 0 tens in the quotient. But I must continue the steps of the algorithm: 0 tens times 4 equals 0 tens. 2 tens minus 0 tens is 2 tens.

$$\begin{array}{r} 805 \\ \times 4 \\ \hline 3,220 \end{array}$$