

# Connecting Models and Symbols

You can use models to help you solve division problems.

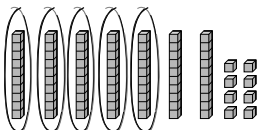
The models below help you find  $78 \div 5$ .

Find  $78 \div 5$ .

Estimate  $80 \div 5 = 16$ .

First divide the tens.

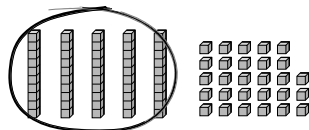
$$\begin{array}{r} 1 \\ 5 \overline{)78} \\ \underline{-5} \end{array} \quad \text{5 tens}$$



There is one ten in each group of 5 and 2 tens left over.

Now, change the left over tens into ones.

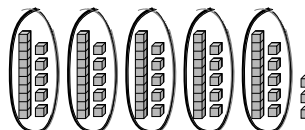
$$\begin{array}{r} 1 \\ 5 \overline{)78} \\ \underline{-5} \end{array} \quad \begin{array}{l} \text{5 tens} \\ \text{28 ones} \end{array}$$



2 tens and 8 ones are equal to 28 ones.

Now, divide the ones.

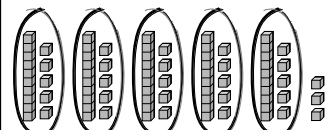
$$\begin{array}{r} 15 \\ 5 \overline{)78} \\ \underline{-5} \quad \text{5 tens} \\ \text{28} \quad \text{28 ones} \\ \underline{-25} \\ \text{3} \end{array}$$



Each of the 5 groups has 1 ten and 5 ones.

Now, write the remainder.

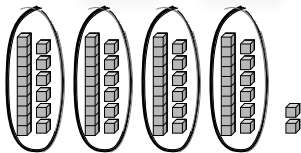
$$\begin{array}{r} 15 \text{ R}3 \\ 5 \overline{)78} \\ \underline{-5} \quad \text{5 tens} \\ \text{28} \quad \text{28 ones} \\ \underline{-25} \\ \text{3} \quad \text{remainder} \end{array}$$



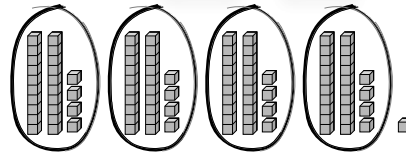
$78 \div 5 = 15 \text{ R}3$

Use the models below to help you fill in the boxes.

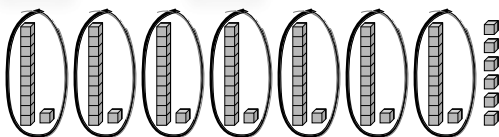
1.  $66 \div \square = \square \text{ R}2$



2.  $97 \div 4 = \square \text{ R} \square$



3.  $\square \div 7 = \square \text{ R}6$



4.  $76 \div \square = \square \text{ R} \square$

