Name _____

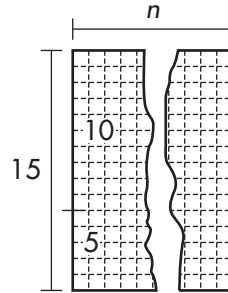# Connecting Models and Symbols

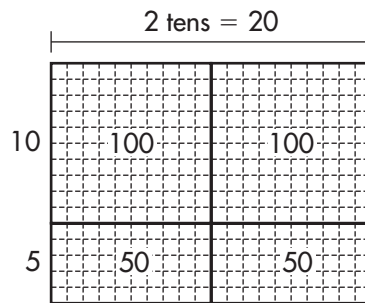Divide 345 by 15.

Construct a model and write an equation

$345 \div 15 = n$ or
$15 \times n = 345$

Step 1:
Divide the tens place.
15 goes in to 34 two times,
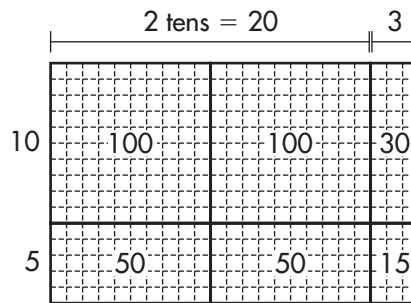so add two tens (20) to
your area model.

What You Think

2 tens = 20

What You Write

$$\begin{array}{r} 2 \\ 15\overline{)3\,4\,5} \\ -3\,0 \\ \hline 4 \end{array}$$

Step 2:
Divide the ones place.
15 goes into 45 three
times, so add three ones to
your area model.

What You Think

2 tens = 20   3

What You Write

$$\begin{array}{r} 2\,3 \\ 15\overline{)3\,4\,5} \\ -3\,0\downarrow \\ \hline 4\,5 \\ -4\,5 \\ \hline 0 \end{array}$$

$345 \div 15 = 23$

Use models to help you divide.

1. $12\overline{)228}$ **2.** $20\overline{)940}$ **3.** $15\overline{)390}$