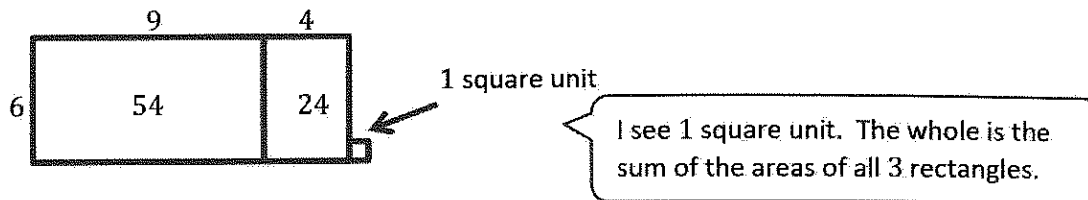


### G4-M3-Lesson 21

1. Yahya solved the following division problem by drawing an area model.



- What division problem did he solve?  $79 \div 6$
- Show how Yahya's model can be represented using the distributive property.

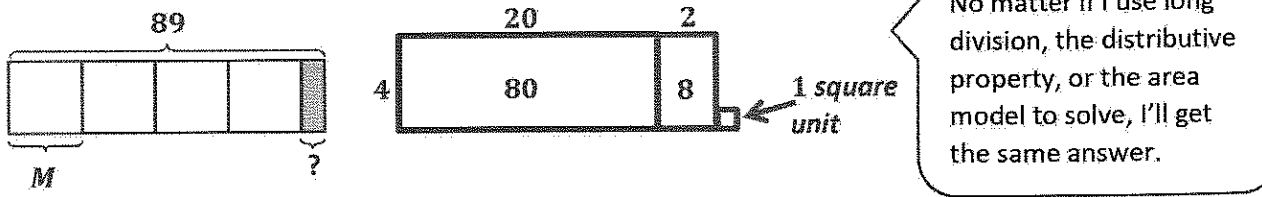
$$\begin{aligned} &(54 \div 6) + (24 \div 6) \\ &= 9 + 4 \\ &= 13 \\ &(6 \times 13) + 1 = 79 \end{aligned}$$

I remember to add a remainder of 1.

Solve the following problems using the area model. Support the area model with long division or the distributive property.

<p>2. <math>71 \div 5</math></p> $\begin{aligned} &(60 \div 5) + (10 \div 5) \\ &= 12 + 2 \\ &= 14 \\ &(14 \times 5) + 1 = 71 \end{aligned}$	<p>3. <math>85 \div 6</math></p> <div style="float: right; text-align: right;"> <math display="block">\begin{array}{r} 14R1 \\ 6 \overline{)85} \\ \underline{-6} \phantom{0} \\ 25 \\ \underline{-24} \\ 1 \end{array}</math> </div> <p>The area of the smaller rectangle is the same as the number of distributed ones in the algorithm.</p>
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4. Eighty-nine marbles were placed equally in 4 bags. How many marbles were in each bag? How many marbles are left over?



**There are 22 marbles in each bag. 1 marble is left over.**