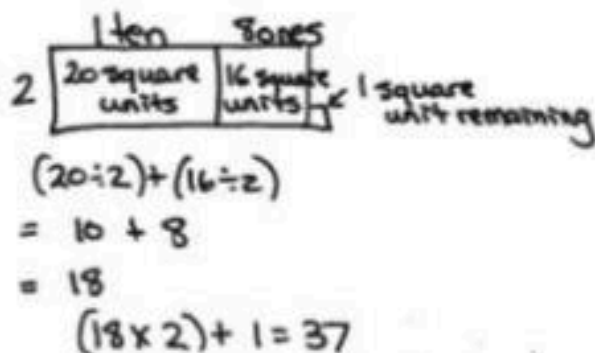
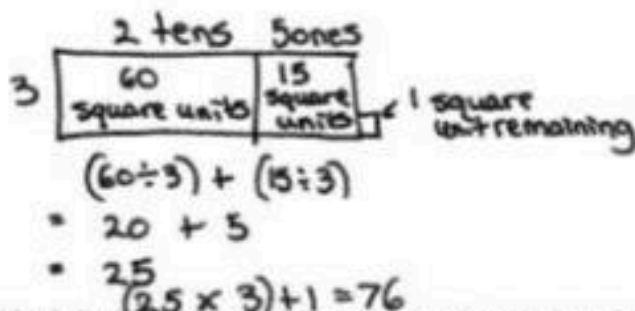


1. Solve  $37 \div 2$  using an area model. Use long division and the distributive property to record your work.



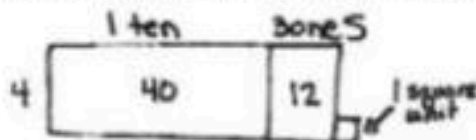
$$\begin{array}{r} 18 \text{ R}1 \\ 2 \overline{) 37} \\ \underline{- 2} \phantom{0} \\ 17 \\ \underline{- 16} \\ 1 \end{array}$$

2. Solve  $76 \div 3$  using an area model. Use long division and the distributive property to record your work.



$$\begin{array}{r} 25 \text{ R}1 \\ 3 \overline{) 76} \\ \underline{- 6} \phantom{0} \\ 16 \\ \underline{- 15} \\ 1 \end{array}$$

3. Carolina solved the following division problem by drawing an area model.



- a. What division problem did she solve?  $53 \div 4$   
 b. Show how Carolina's model can be represented using the distributive property.

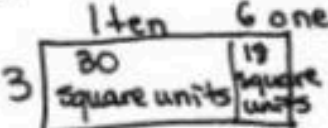
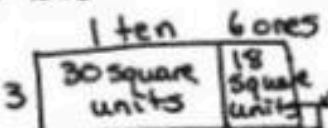
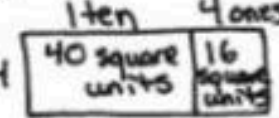
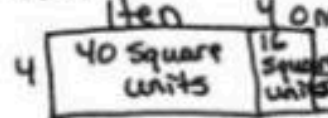
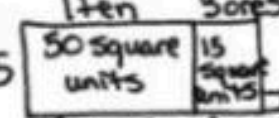
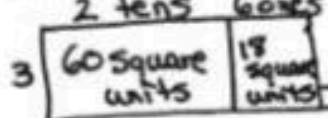
$$(40 \div 4) + (12 \div 4)$$

$$= 10 + 3$$

$$= 13$$

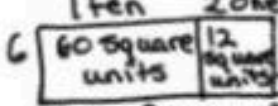
$$(13 \times 4) + 1 = 53$$

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

<p>4. <math>48 \div 3</math></p> <p>1 ten 6 ones</p>  <p><math>(30 \div 3) + (18 \div 3)</math>  <math>= 10 + 6</math>  <math>= 16</math></p>	<p>5. <math>49 \div 3</math></p> <p>1 ten 6 ones</p>  <p>1 square unit remaining</p> <p><math>3 \overline{)49}</math>  <math>\underline{-3}</math>  <math>19</math>  <math>\underline{-18}</math>  <math>1</math></p>
<p>6. <math>56 \div 4</math></p> <p>1 ten 4 ones</p>  <p><math>(40 \div 4) + (16 \div 4)</math>  <math>= 10 + 4</math>  <math>= 14</math></p>	<p>7. <math>58 \div 4</math></p> <p>1 ten 4 ones</p>  <p>2 square units remaining</p> <p><math>4 \overline{)58}</math>  <math>\underline{-4}</math>  <math>18</math>  <math>\underline{-16}</math>  <math>2</math></p>
<p>8. <math>66 \div 5</math></p> <p>1 ten 3 ones</p>  <p>1 square unit remaining</p> <p><math>(50 \div 5) + (15 \div 5)</math>  <math>= 10 + 3</math>  <math>= 13</math>  <math>(13 \times 5) + 1 = 66</math></p>	<p>9. <math>79 \div 3</math></p> <p>2 tens 6 ones</p>  <p>1 square unit remaining</p> <p><math>3 \overline{)79}</math>  <math>\underline{-6}</math>  <math>19</math>  <math>\underline{-18}</math>  <math>1</math></p>

10. Seventy-three students are divided into groups of 6 students each. How many groups of 6 students are there? How many students will not be in a group of 6?

1 ten 2 ones



1 square unit remaining

$(60 \div 6) + (12 \div 6)$   
 $= 10 + 2$   
 $= 12$   
 $(12 \times 6) + 1 = 73$

$6 \overline{)73}$   
 $\underline{-6}$   
 $13$   
 $\underline{-12}$   
 $1$

There are 12 groups of 6 students. 1 student will not be in a group of 6.

