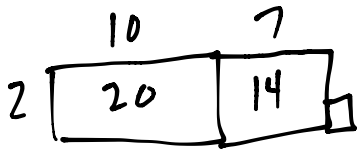Name _____   Date _____

1. Solve 35 ÷ 2 using an area model. Use long division and the distributive property to record your work.

$$20 \div 2 + 14 \div 2$$
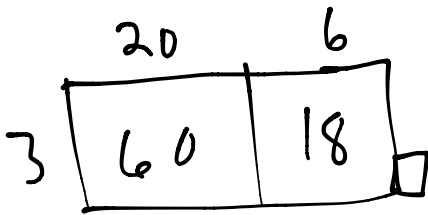$$= 10 + 7$$
$$= 17$$
$$(17 \times 2) + 1 = 35$$

2. Solve 79 ÷ 3 using an area model. Use long division and the distributive property to record your work.

$$60 \div 3 + 18 \div 3$$
$$= 20 + 6$$
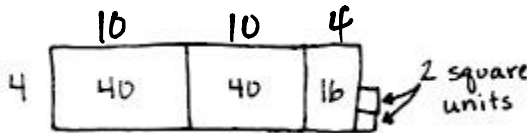$$= 26$$
$$(26 \times 3) + 1 = 79$$

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

2 square units
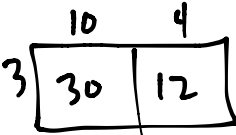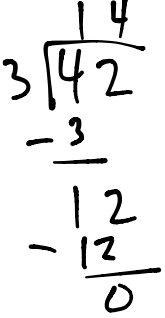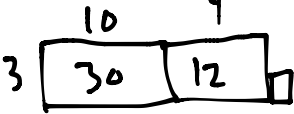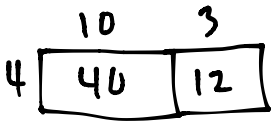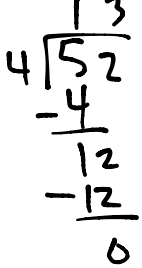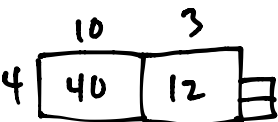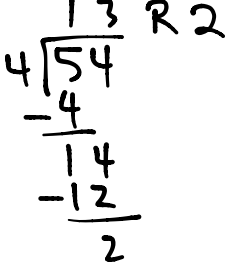
a. What division problem did she solve? $98 \div 4$
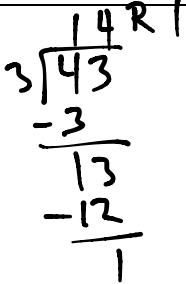
b. Show how Paulina's model can be represented using the distributive property.

$$40 \div 4 + 40 \div 4 + 16 \div 4$$
$$= 10 + 10 + 4$$
$$= 24$$
$$(24 \times 4) + 2 = 98$$

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

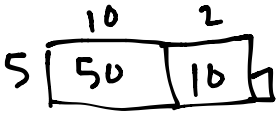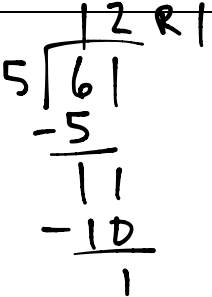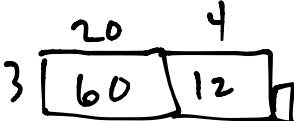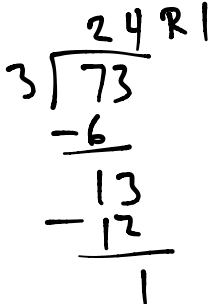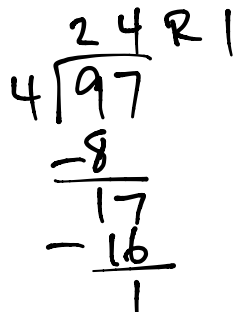|	
4. $42 \div 3$ 10 4 3 | 30 | 12 | 1 4 3$\overline{)42}$ -3 1 2 -12 $\overline{0}$	5. $43 \div 3$ 10 4 3 | 30 | 12 | 1 4 R 1 3$\overline{)43}$ -3 $\overline{13}$ -12 $\overline{1}$
6. $52 \div 4$ 10 3 4 | 40 | 12 | 1 3 4$\overline{)52}$ -4 $\overline{12}$ -12 $\overline{0}$	7. $54 \div 4$ 10 3 4 | 40 | 12 | 1 3 R 2 4$\overline{)54}$ -4 $\overline{14}$ -12 $\overline{2}$
8. $61 \div 5$ 10 2 5 | 50 | 10 | 1 2 R 1 5$\overline{)61}$ -5 $\overline{11}$ -10 $\overline{1}$	9. $73 \div 3$ 20 4 3 | 60 | 12 | 2 4 R 1 3$\overline{)73}$ -6 $\overline{13}$ -12 $\overline{1}$

10. Ninety-seven lunch trays were placed equally in 4 stacks. How many lunch trays were in each stack? How many lunch trays will be leftover?

 2 4 R 1
4$\overline{)97}$
-8
$\overline{17}$
-16
$\overline{1}$

There are 24 trays in each stack.
There is 1 tray left over.