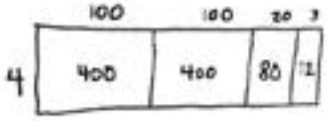
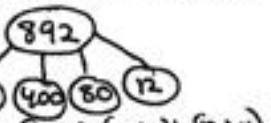
Name Jack Date _____

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



a. What division problem did she solve? $892 \div 4 = 223$

b. Show a number bond to represent Ursula's area model and represent the total length using the distributive property.



$(400 \div 4) + (400 \div 4) + (80 \div 4) + (12 \div 4)$
$= 100 + 100 + 20 + 3$
$= 223$

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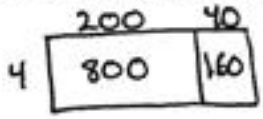
2. a. Solve 960 ÷ 4 using the area model. There is no remainder in this problem.



$960 \div 4 = 240$

b. Draw a number bond and use the long division algorithm to record your work from (a).

$(800 \div 4) + (160 \div 4)$
$= 200 + 40$
$= 240$

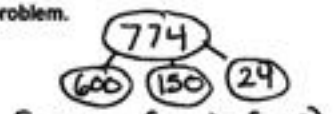
$$\begin{array}{r} 240 \\ 4\overline{)960} \\ -8 \\ \hline 16 \\ -16 \\ \hline 00 \\ -0 \\ \hline 0 \end{array}$$

3. a. Draw an area model to solve 774 ÷ 3.

	200	50	8
3	600	150	24

774 ÷ 3 = 258

b. Draw a number bond to represent this problem.



(600 ÷ 3) + (150 ÷ 3) + (24 ÷ 3)

= 200 + 50 + 8

= 258

c. Record your work using the long division algorithm.

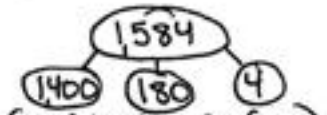
```
  258
3|774
 -6
  17
 -15
   24
  -24
    0
```

4. a. Draw an area model to solve 1,584 ÷ 2.

	700	90	2
2	1,400	180	4

1,584 ÷ 2 = 792

b. Draw a number bond to represent this problem.



(1400 ÷ 2) + (180 ÷ 2) + (4 ÷ 2)

= 700 + 90 + 2

= 792

c. Record your work using the long division algorithm.

```
  792
2|1584
 -14
  18
 -18
  04
  -4
   0
```