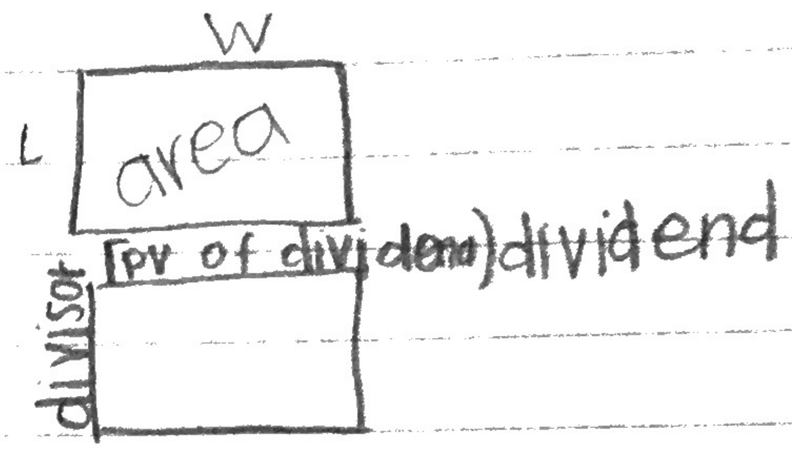
*vocab 1st: quotient, divisor, dividend

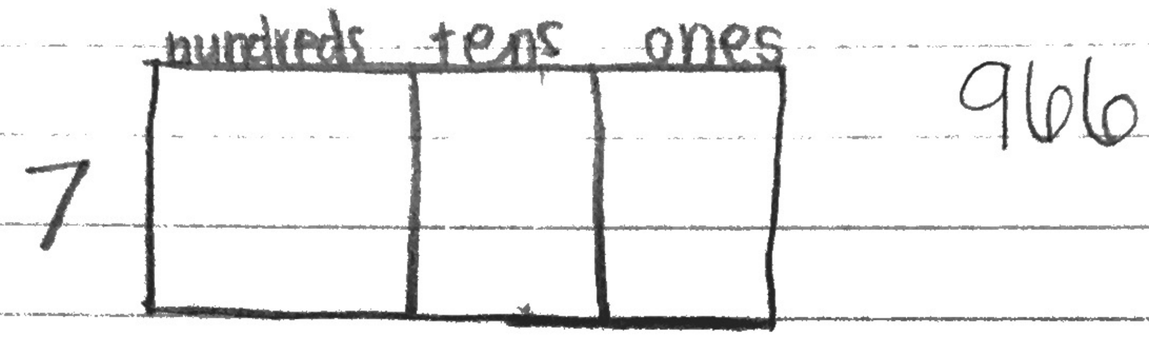
Division Area Model

966 ÷ 7 $7\overline{)966}$

Step 1 = draw box

Step 2 = label box





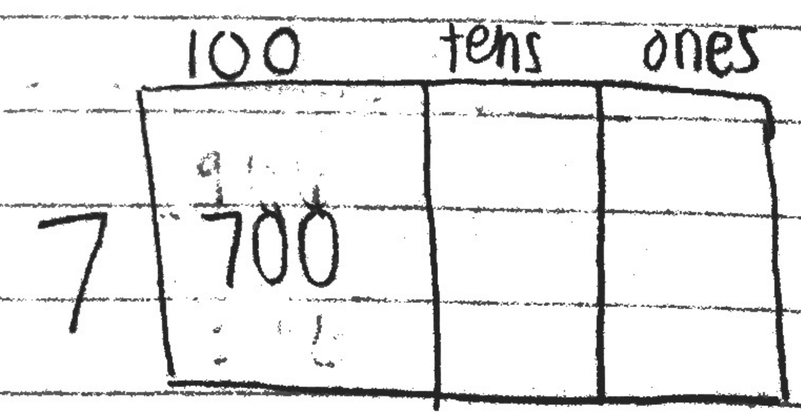
Step 3 = start w/ largest PV. Multiply divisor by 1 group of that PV (100 or 10 or 1)

7×100=700

*look at dividend, ask, can I multiply by another hundred and not go over? (ex: 7×200=1400 *went over 900)

- Use as much as you can of your dividend.

Re-label box → multiply → Subtract from dividend



966
-700
266 ☆New dividend

Step 4 = repeat Step 3 with all PV's

Add up circled to get answer

~~8=103~~
8=56
7=49
6=42
5=35
4=28
3=21
2=14
1=7

~~40=280~~
30=210
20=140
10=10

~~200=1400~~
100=700

$\boxed{100+30+8=138}$

	H	T	O
7	700	210	56

inside box should be equal to first dividend

+remainder

966
-700
266
-210
56
-56
0 ← remainder after last PV

*Check with multiplication

$$\begin{array}{r} {}^{2}\,{}^{5} \\ 138 \\ \times\ \ 7 \\ \hline 966 \end{array} \checkmark$$

3digit by 2digit

896÷32 32|896

~~80=2560~~
40=640
~~H 100=3200~~ T 10=320

8=256
6=160
4=128
3=96
2=64
1=32

$=\boxed{20+8=28}$

32	0	640	256

896
-0
896
-640
256
-250
0

$$\begin{array}{r} {}^{2} \\ \times\ 28 \\ \times\ 32 \\ \hline 56 \\ +840 \\ \hline 896 \end{array} \checkmark$$