



Calculation at Chesswood

Addition

Number Line

Partitioning

Expanded Column

Compact Column

So which method do I use?

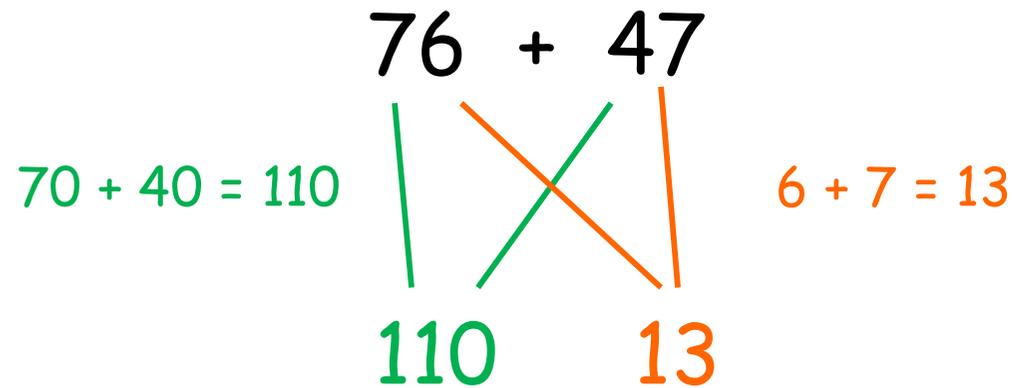




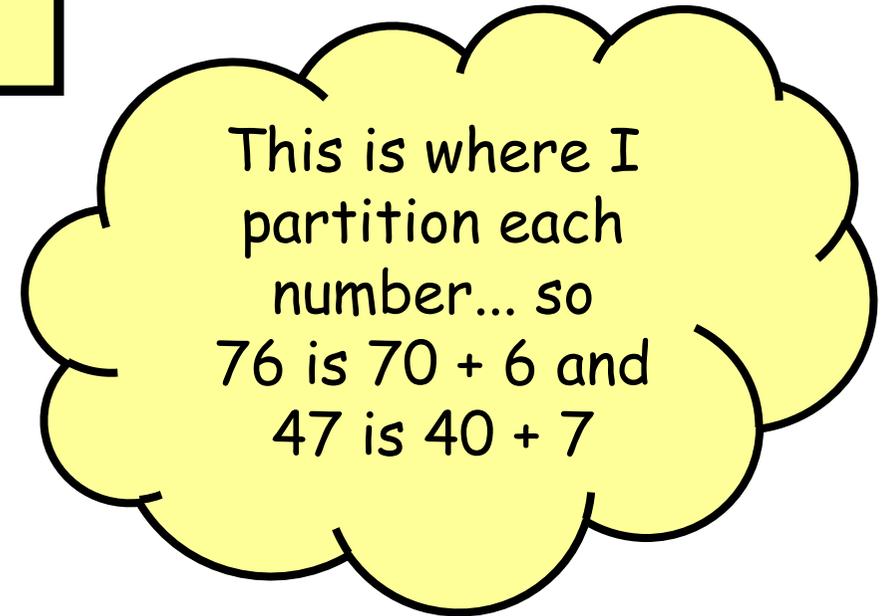
Partitioning

$$76 + 47 = 70 + 6 + 40 + 7$$

Or it's best to write it like this...



$$110 + 13 = 123$$

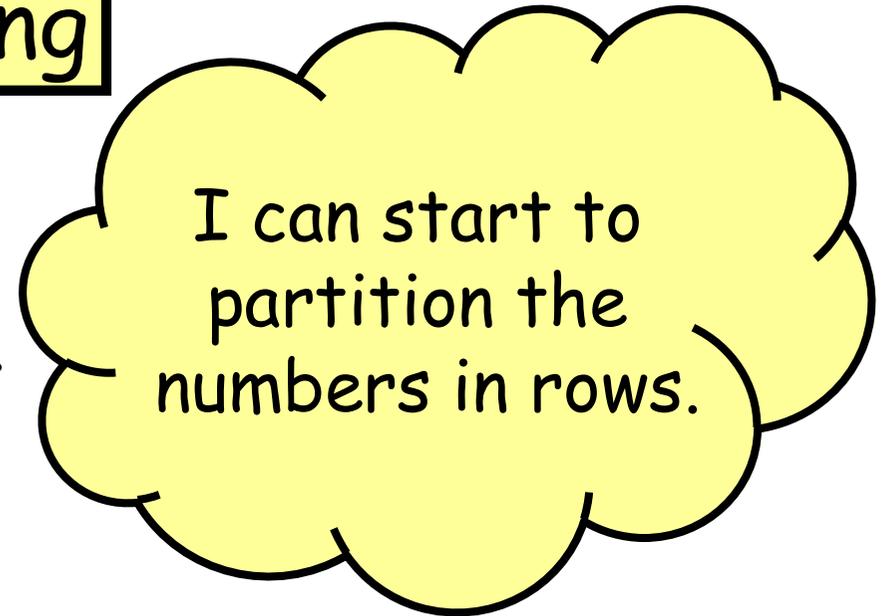


$$76 + 47 = 123$$



Horizontal Partitioning

Squared paper may help line up each number in its Ones (O), Tens (T) or Hundreds (H) columns.



T	O		T	O		H	T	O	
7	6	+	4	7	=				
7	0	+	4	0	=	1	1	0	
	6	+		7	=		1	3	
Recombine							1	2	3

$$76 + 47 = 123$$

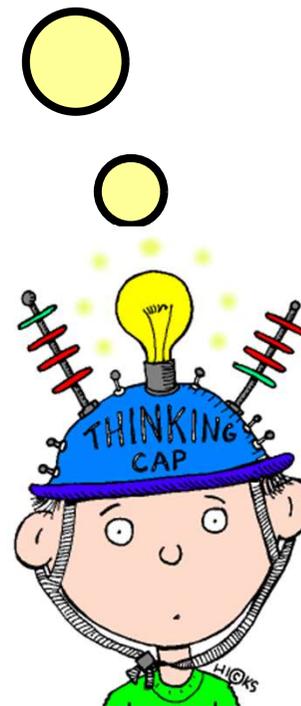
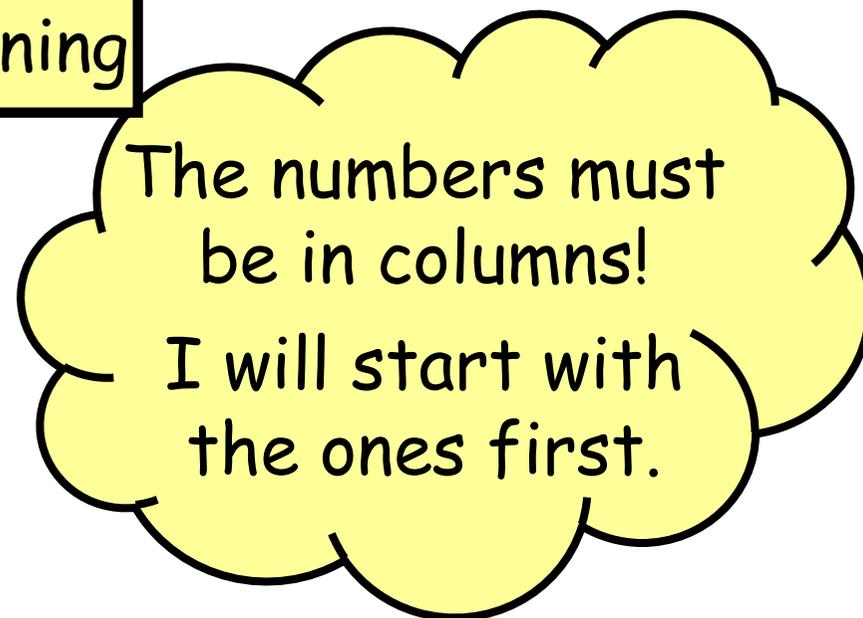




Expanded Column - Partitioning

Use squared paper to write the numbers in columns.

$$\begin{array}{r} 70 + 6 \\ + 40 + 7 \\ \hline 110 + 13 = 123 \\ \hline \end{array}$$



$$76 + 47 = 123$$



Expanded Column

Use squared paper to write the numbers in columns.

$$\begin{array}{r} 76 \\ + 47 \\ \hline 13 \\ 110 \\ \hline 123 \\ \hline \end{array} \quad \begin{array}{l} (6 + 7) \\ (40 + 70) \end{array}$$

The numbers must be in columns!
I will start with the ones first.



$$76 + 47 = 123$$

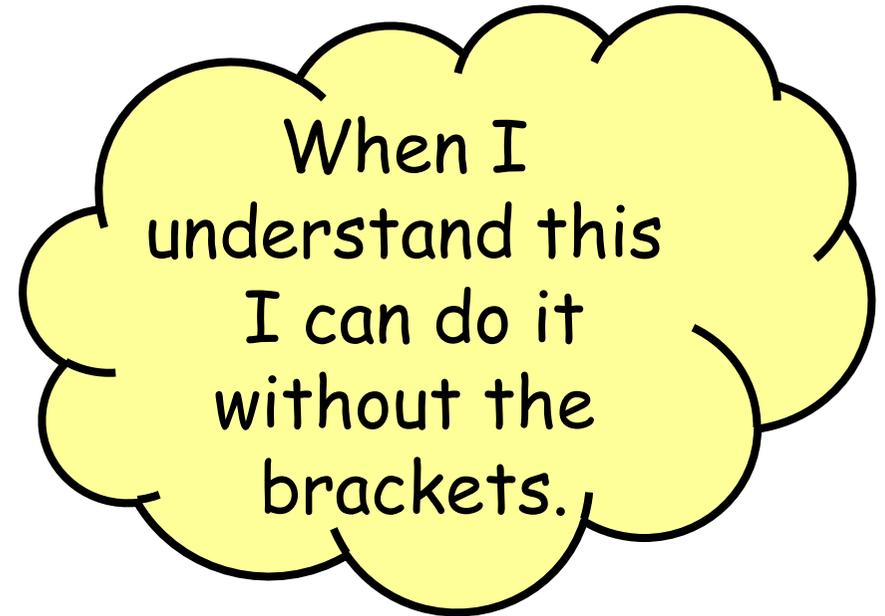


Expanded Column

Use squared paper to write the numbers in columns.

$$\begin{array}{r} 276 \\ + 147 \\ \hline 13 \quad (6 + 7) \\ 110 \quad (70 + 40) \\ 300 \quad (200 + 100) \\ \hline 423 \\ \hline \end{array}$$

$$276 + 147 = 423$$





Compact Column

Use squared paper to write the numbers in columns.

$$\begin{array}{r} 276 \\ + 147 \\ \hline 423 \\ \hline 11 \end{array}$$

$$6 + 7 = 13$$

(Write the ten under the place value column to the left.)

$$7 + 4 + 1 = 12$$

(Write the ten under the place value column to the left.)

$$2 + 1 + 1 = 4$$

When I understand place value better, I can do it this way!



$$276 + 147 = 423$$