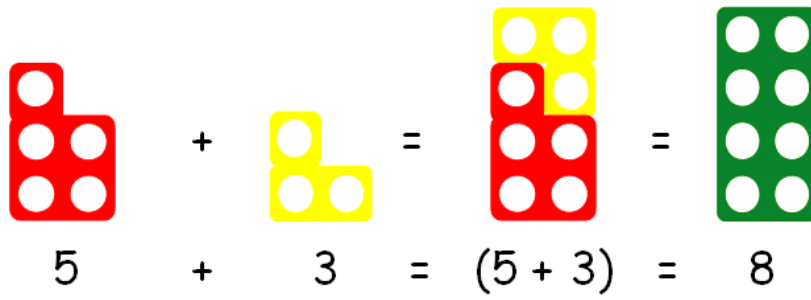


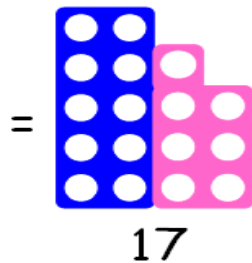
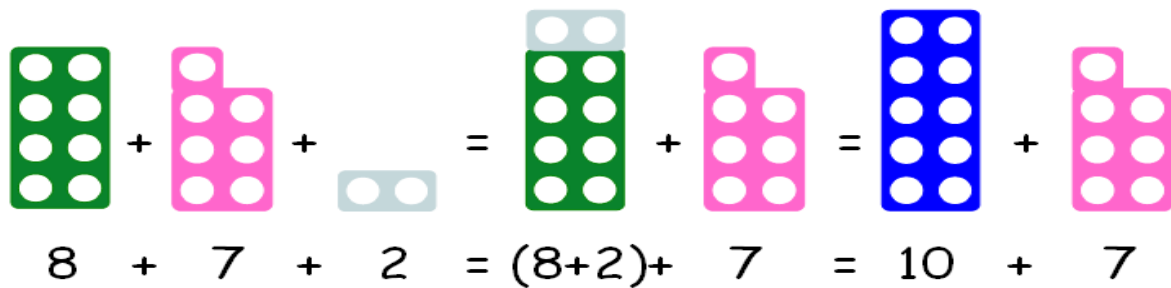
ADIO/ADDITION

1. Grwpio/grouping

$$5 + 3 = 8$$



$$8 + 7 + 2 = 17$$

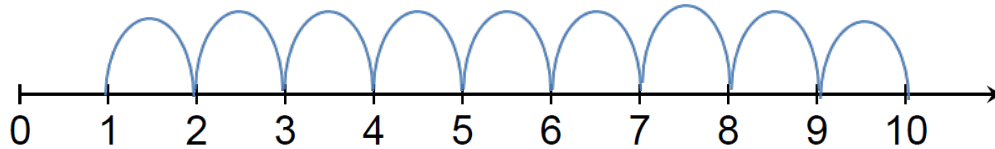


2. Adio ar linell rhif/ Addition on a number line

$$8 + 2 = 10$$

+ 8

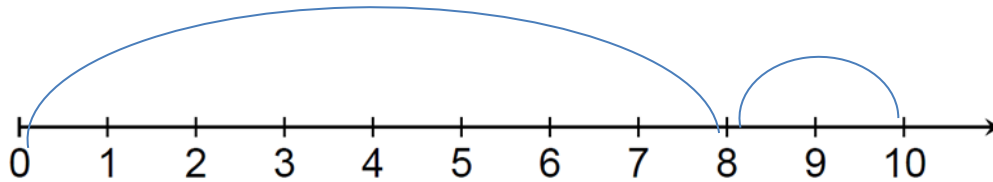
+ 2



$$8 + 2 = 10$$

+8

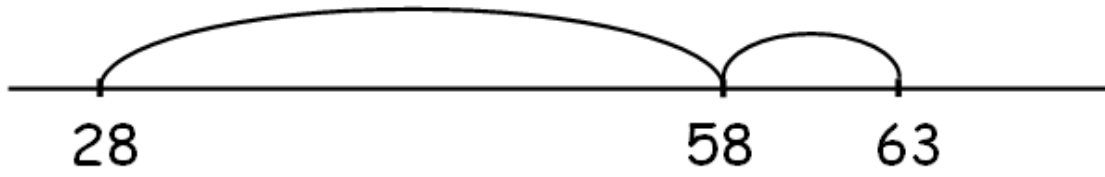
+2



$$28 + 35 = 63$$

+30

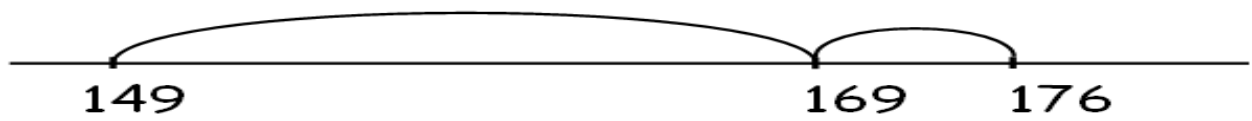
+5



$$149 + 26 = 176$$

+20

+6



3. Adio colofnau/ vertical addition

	2	8
+	3	5
<hr/>		
	5	0
	1	3
<hr/>		
	6	3

$$\begin{array}{l} 20 + 8 \\ 30 + 5 \end{array}$$

$$20 + 30 = 50$$

$$8 + 5 = 13$$

$$50 + 10 + 3$$

	3	6	8
+	4	9	4
<hr/>			
	7	0	0
	1	5	0
		1	2
<hr/>			
	8	6	2

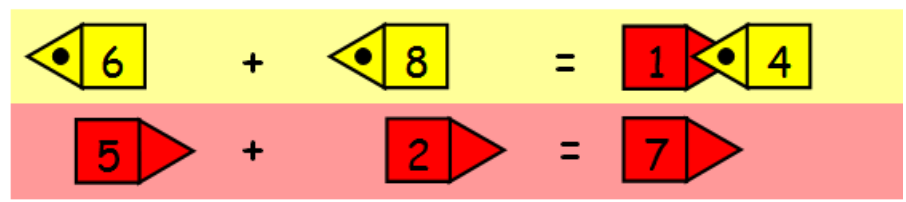
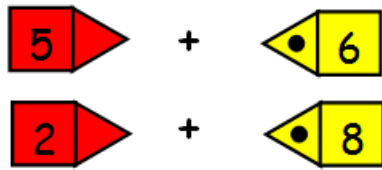
$$\begin{array}{l} 300 + 60 + 8 \\ 400 + 90 + 4 \end{array}$$

$$300 + 400 = 700$$

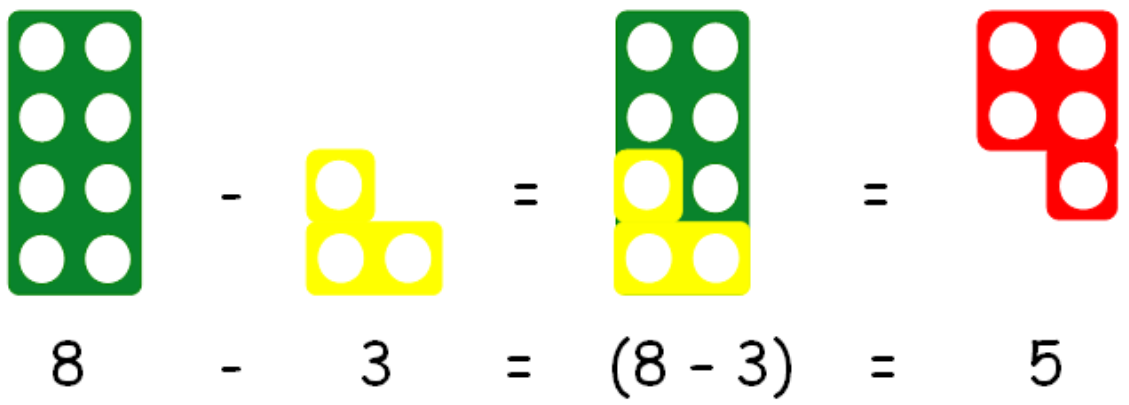
$$60 + 90 = 150$$

$$8 + 4 = 12$$

$$\begin{array}{r}
 56 \\
 + 28 \\
 \hline
 14 \\
 70 \\
 \hline
 84
 \end{array}$$



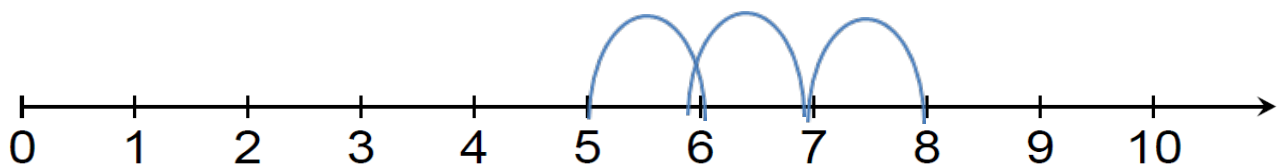
TYNNU/ SUBTRACTION



1. Cyfri nôl/ counting back

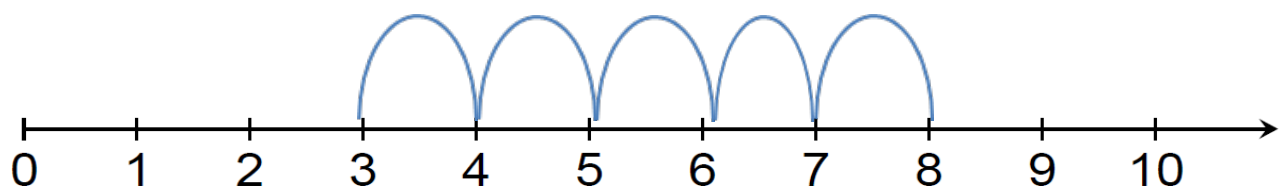
$$8 - 3 = 5$$

-3



2. Dod o hyd i wahaniaeth/ finding the difference

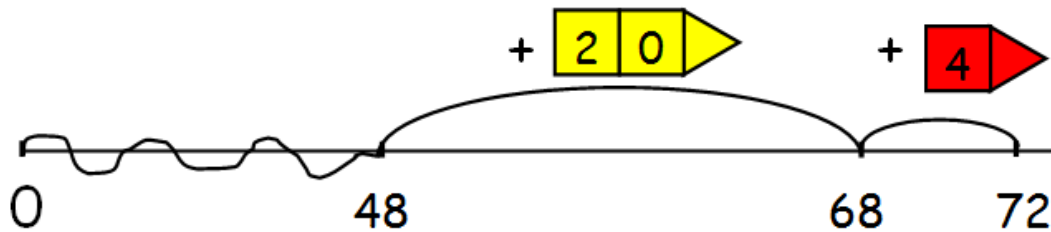
$$8 - 3 = 5$$



2. Tynnu gan adio ymlaen/ subtraction by counting on.

a.) $72 - 48 = 24$

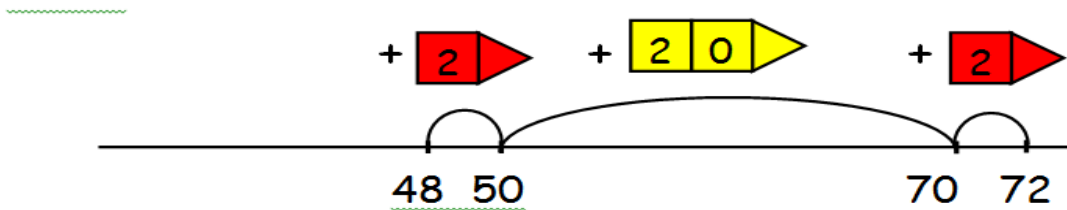
$$\underline{72} - 48 = \begin{array}{|c|c|} \hline 7 & 2 \\ \hline \end{array} \blacktriangleright - \begin{array}{|c|c|} \hline 4 & 8 \\ \hline \end{array} \blacktriangleright$$



$$= \begin{array}{|c|c|} \hline 2 & 0 \\ \hline \end{array} \blacktriangleright + \begin{array}{|c|} \hline 4 \\ \hline \end{array} \blacktriangleright$$

$$= \begin{array}{|c|c|} \hline 2 & 4 \\ \hline \end{array} \blacktriangleright$$

b)

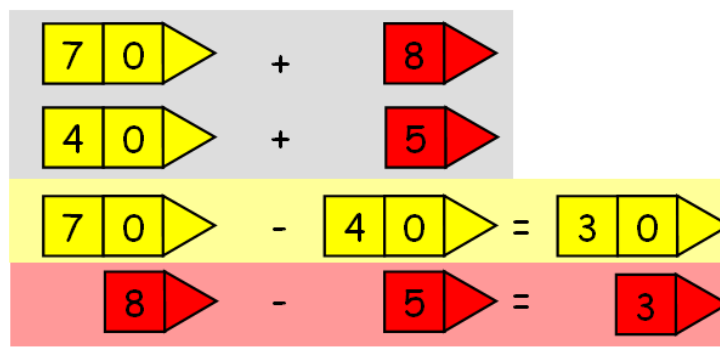


$$\begin{array}{r} 72 \\ - 48 \\ \hline 2 \quad (50) \\ 20 \quad (70) \\ 2 \quad (72) \\ \hline 24 \end{array}$$

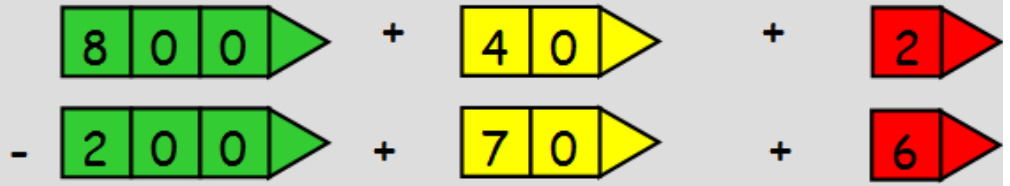
$\underline{72} - 48 = 24$	$72 - 24 = 48$
$\underline{24} + 48 = 72$	$48 + 24 = 72$

3. Tynnu gan ddefnyddio colofnau/ Column subtraction

$$\begin{array}{r} 78 \\ - 45 \\ \hline 30 \\ 3 \\ \hline 33 \end{array}$$

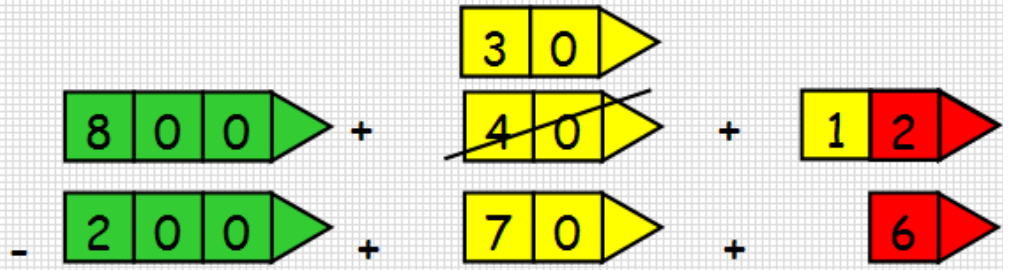


$$\begin{array}{r} 842 \\ - 276 \\ \hline \end{array}$$



$$8 \overset{3}{\cancel{4}} \overset{12}{2}$$

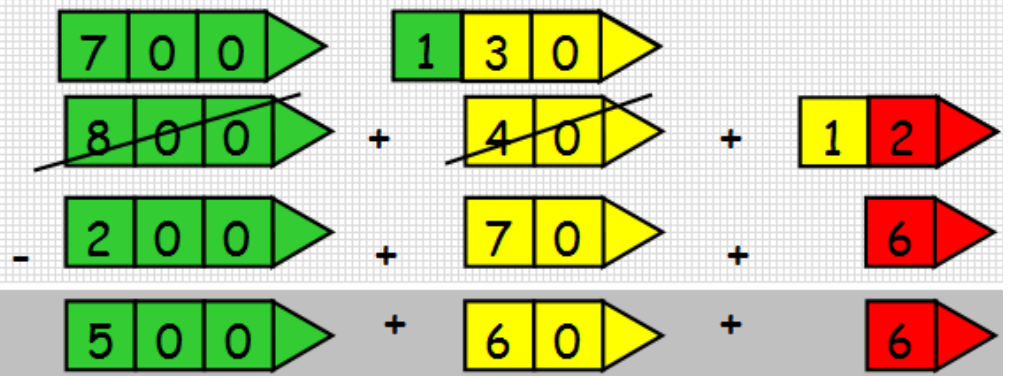
$$\begin{array}{r} 842 \\ - 276 \\ \hline \end{array}$$



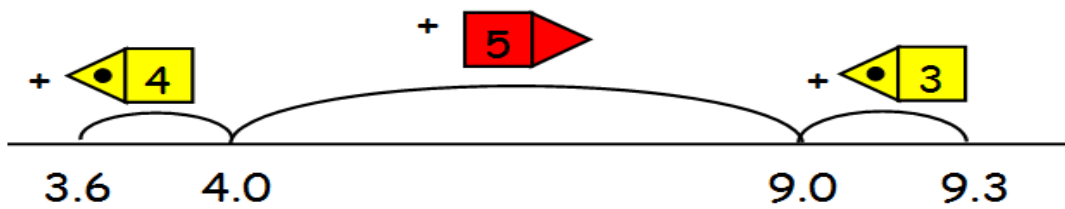
$$7 \overset{8}{\cancel{8}} \overset{13}{\cancel{4}} \overset{12}{2}$$

$$\begin{array}{r} 842 \\ - 276 \\ \hline \end{array}$$

$$\begin{array}{r} 566 \\ \hline \end{array}$$



$$9.3 - 3.6$$



$$\begin{array}{r} 9.4 \\ - 3.7 \\ \hline 0.4 \quad (4.0) \\ 5.0 \quad (9.0) \\ \hline 0.3 \quad (9.3) \\ \hline 5.7 \end{array}$$

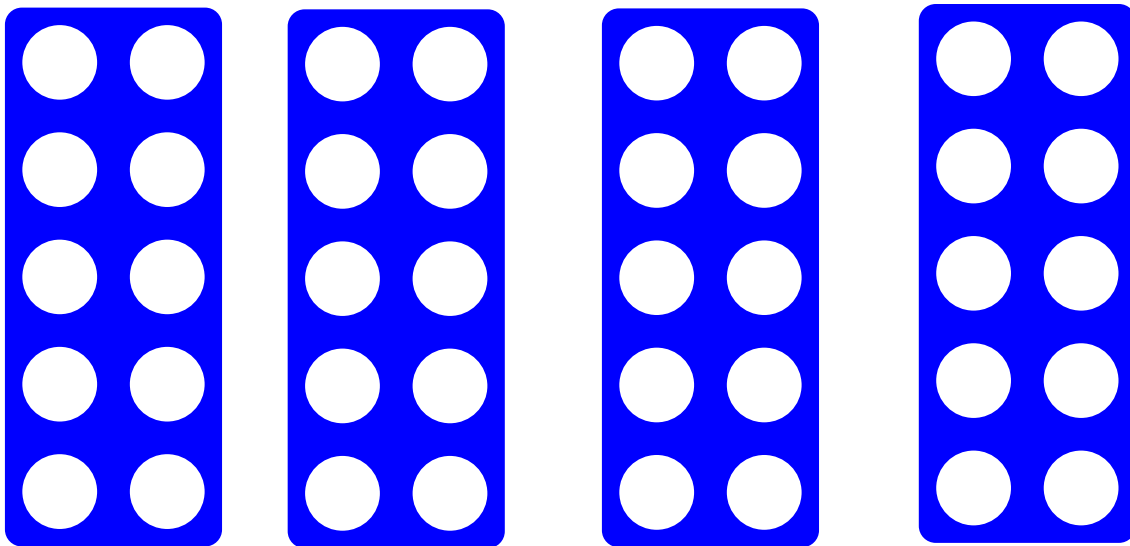
LLUOSI/MULTIPLICATION

Setiau/Sets of



$$5 + 5 + 5 = 15$$

$$3 \times 5 = 15$$



$$10 + 10 + 10 + 10 = 40$$

$$4 \times 10 = 40$$

$$23 \times 8$$

2 × 10

×	20	3
8	160	24

	1	6	0
+		2	4
	1	8	4

$8 \times 2 \times 10$

8×3

$23 \times 8 = 184$

$8 \times 23 = 184$

$184 \div 23 = 8$

$184 \div 8 = 23$

$$346 \times 9$$

4

3×100
neu

$3 \times 10 \times 10$

4×10

×	300	40	6
9	2700	360	54

		3	4	6
×				9
			5	4
		3	6	0
	2	7	0	0
	3	1	1	4

$9 \times 3 \times 100$
neu

$9 \times 3 \times 10 \times 10$

$9 \times 4 \times 10$

9×6

$346 \times 9 = 3114$

$9 \times 346 = 3114$

$3114 \div 346 = 9$

$3114 \div 9 = 346$

6

$$56 \times 27$$

$$2 \times 10$$

$$5 \times 10$$

x	20	7
50	1000	350
6	120	42

$$5 \times 10 \times 7$$

neu

$$5 \times 7 \times 10$$

		56
x		27
		42
	350	
	120	
	1000	
	1512	

$$6 \times 7$$

$$5 \times 10 \times 2 \times 10$$

neu

$$5 \times 2 \times 10 \times 10$$

$$6 \times 2 \times 10$$

$$56 \times 27 = 1512$$

$$27 \times 56 = 1512$$

$$1512 \div 56 = 27$$

$$1512 \div 27 = 56$$

11

$$4.9 \times 3$$

$$9 \div 10$$

x	4	0.9
3	12	2.7

$$(3 \times 9) \div 10$$

	4.9
x	3
	2.7
	12.0
	14.7

$$3 \times 4$$

$$49 \times 3 = 147$$

$$3 \times 49 = 147$$

$$147 \div 49 = 3$$

$$147 \div 3 = 49$$

RHANNU/DIVISION

$$20 \div 5 =$$



So, how many 5s in 20?

$$20 \div 5 = 4$$

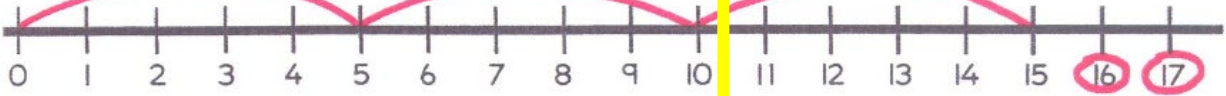
$$18 \div 3 =$$



So, how many 3s in 18?

$$18 \div 3 = 6$$

$$17 \div 5 =$$



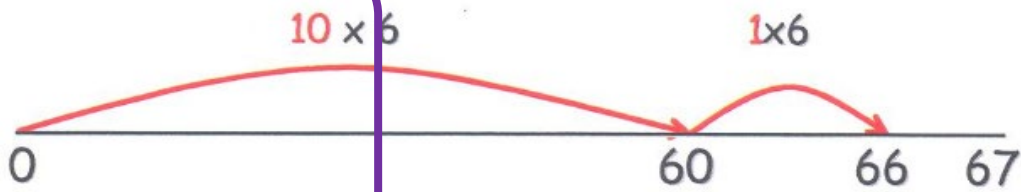
Felly, sawl 5 sydd mewn 17?

So, how many 5s in 17?

3 a gweddill 2

3 reminder 2

$$67 \div 6 =$$



Felly/so,

$$67 \div 6 = 11 \text{ g/r } 1$$

$$69 \div 4$$

$$\begin{array}{r} 17 \text{ gw. } 1 \\ 4 \overline{) 69} \\ - 40 \\ \hline 29 \\ - 20 \\ \hline 9 \\ - 8 \\ \hline 1 \end{array} \quad \begin{array}{l} 10 \times 4 \\ 5 \times 4 \\ 2 \times 4 \end{array}$$

1	x	4	=	4
2	x	4	=	8
5	x	4	=	20
10	x	4	=	40

$$75 \div 5$$

$$\begin{array}{r} 15 \\ 5 \overline{) 75} \\ - 50 \\ \hline 25 \\ - 25 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \times 5 \\ 5 \times 5 \end{array}$$

1	x	5	=	5
2	x	5	=	10
5	x	5	=	25
10	x	5	=	50

$$\begin{array}{ll} 75 \div 5 = 15 & 75 \div 15 = 5 \\ 15 \times 5 = 75 & 5 \times 15 = 75 \end{array}$$