Year 3

Vocabulary

Add
sum
plus
combined
total
increase
altogether
more

Addition

Place Value Table

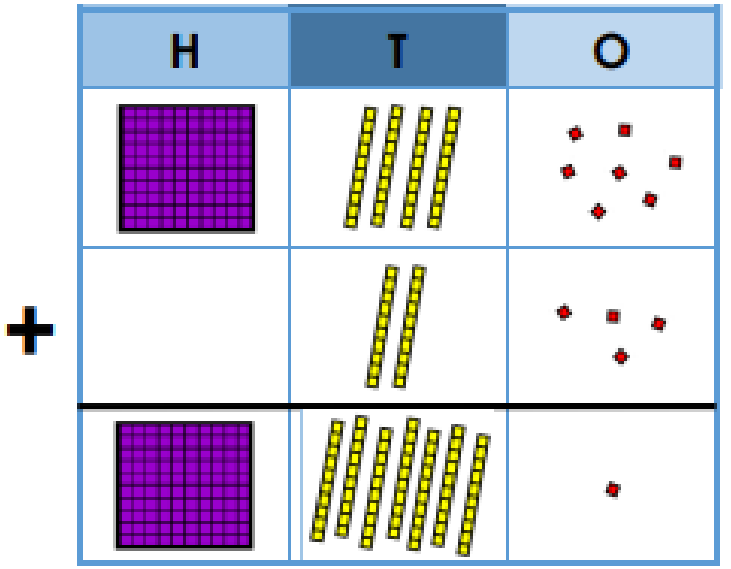
232 + 29 = 261

H	T	O
100 100	10 10 10	1 1
	10 10	1 1 1
		1 1 1
		1 1 1

If we have more than 10, we exchange counters.

H	T	O
100 100	10 10 10	1
	10 10 10	

Base 10



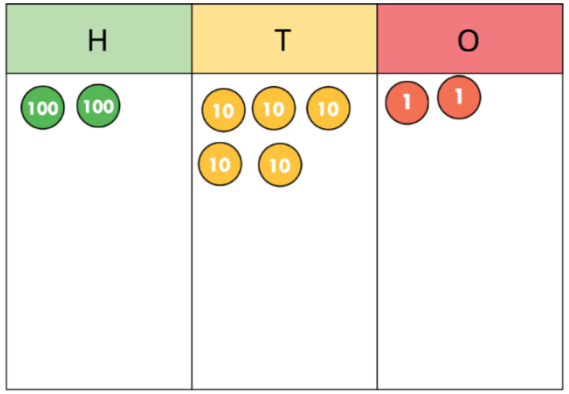
	1	4	7
+		2	4
	1	7	1
		1	

Year 3

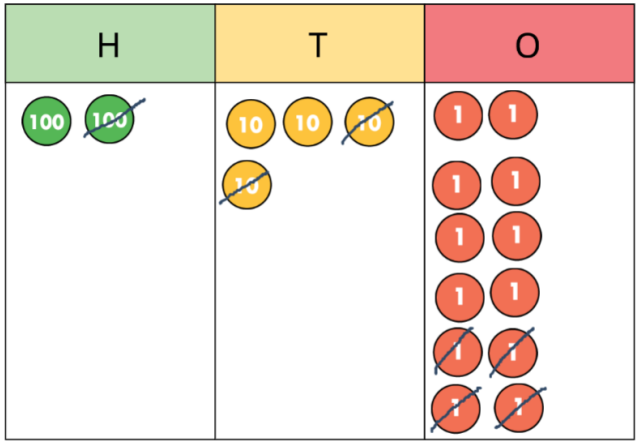
Vocabulary	Subtraction	
	Place Value Counters	Ten Frame

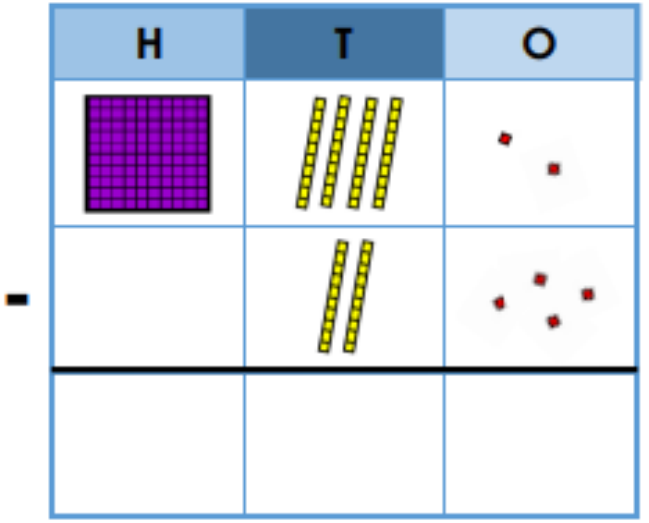
subtract
minus
decrease
reduce
take away
difference
less
fewer

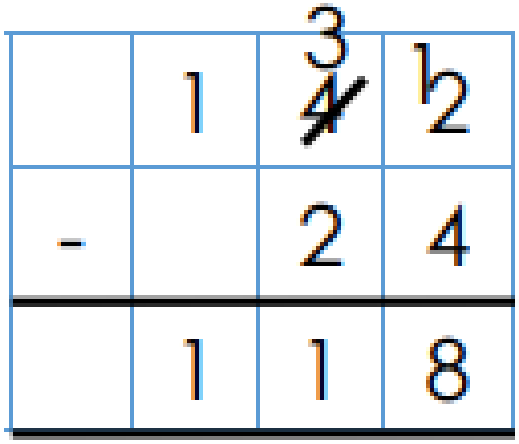
252 – 124 =



If we can't takeaway we exchange.







Year 3

Vocabulary

Multiply
Times
Double
Count in __
Equal groups
Product of

Multiplication

Times Tables

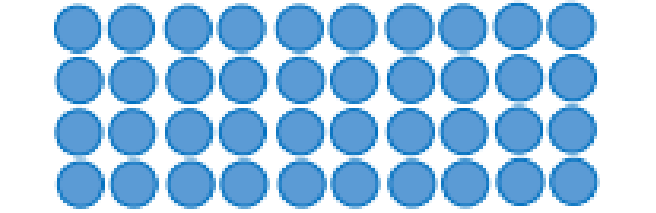
3x Table	4x Table	8x Table
0 x 3 = 0	0 x 4 = 0	0 x 8 = 0
1 x 3 = 3	1 x 4 = 4	1 x 8 = 8
2 x 3 = 6	2 x 4 = 8	2 x 8 = 16
3 x 3 = 9	3 x 4 = 12	3 x 8 = 24
4 x 3 = 12	4 x 4 = 16	4 x 8 = 32
5 x 3 = 15	5 x 4 = 20	5 x 8 = 40
6 x 3 = 18	6 x 4 = 24	6 x 8 = 48
7 x 3 = 21	7 x 4 = 28	7 x 8 = 56
8 x 3 = 24	8 x 4 = 32	8 x 8 = 64
9 x 3 = 27	9 x 4 = 36	9 x 8 = 72
10 x 3 = 30	10 x 4 = 40	10 x 8 = 80
11 x 3 = 33	11 x 4 = 44	11 x 8 = 88
12 x 3 = 36	12 x 4 = 48	12 x 8 = 96

14 x 8 = 112

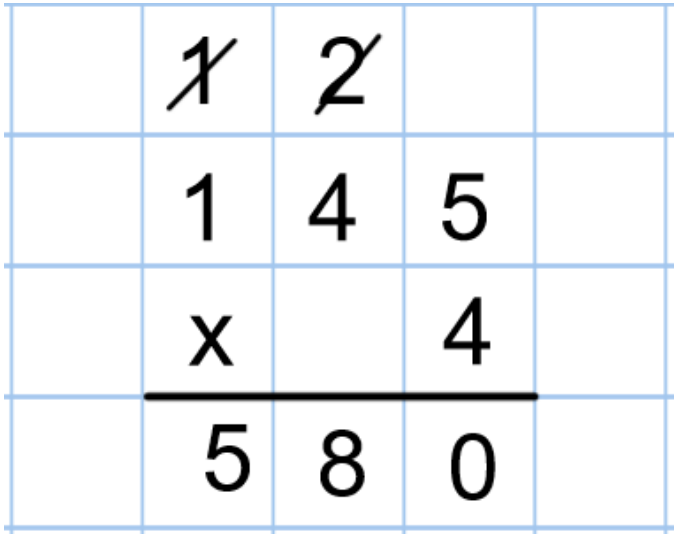
×	10	4
8	80	32

Arrays

10 x 4



Written Method



Year 3

Vocabulary

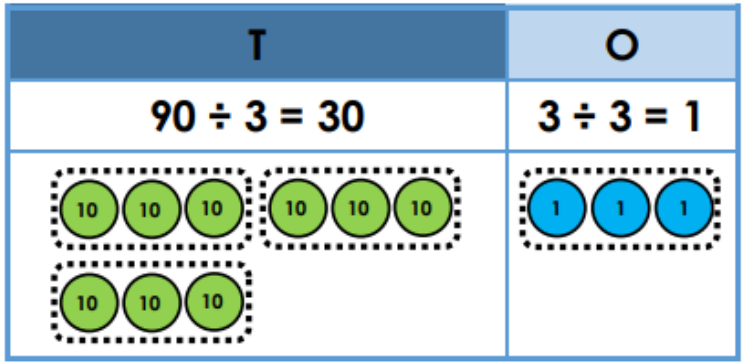
Divide
Share
Count in __
Equal groups of...

Division

Written Method

	2	4
4	9	$^{1}6$

Groups of...



Known Facts

Sometimes, you need to use your known table facts and manipulation to find missing values.

? × 3 = 21

The missing value equals 21 ÷ 3. The answer is 7.

8 = ? ÷ 4

The missing value equals 8 x 4. The answer is 32.

3x Table
0 ÷ 3 = 0
3 ÷ 3 = 1
6 ÷ 3 = 2
9 ÷ 3 = 3
12 ÷ 3 = 4
15 ÷ 3 = 5
18 ÷ 3 = 6
21 ÷ 3 = 7
24 ÷ 3 = 8
27 ÷ 3 = 9
30 ÷ 3 = 10
33 ÷ 3 = 11
36 ÷ 3 = 12

4x Table
0 ÷ 4 = 0
4 ÷ 4 = 1
8 ÷ 4 = 2
12 ÷ 4 = 3
16 ÷ 4 = 4
20 ÷ 4 = 5
24 ÷ 4 = 6
28 ÷ 4 = 7
32 ÷ 4 = 8
36 ÷ 4 = 9
40 ÷ 4 = 10
44 ÷ 4 = 11
48 ÷ 4 = 12

8x Table
0 ÷ 8 = 0
8 ÷ 8 = 1
16 ÷ 8 = 2
24 ÷ 8 = 3
32 ÷ 8 = 4
40 ÷ 8 = 5
48 ÷ 8 = 6
56 ÷ 8 = 7
64 ÷ 8 = 8
72 ÷ 8 = 9
80 ÷ 8 = 10
88 ÷ 8 = 11
96 ÷ 8 = 12

Year 3

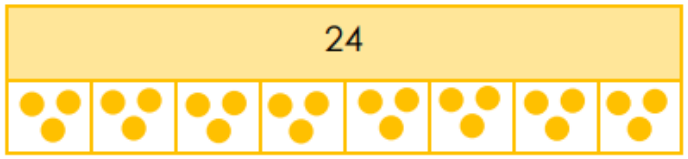
Vocabulary

Equal parts
Groups
Divide
Equivalent
Numerator
Denominator

Fractions

Fraction of an amount

$\frac{1}{8}$ of 24 = 3



Equivalent

Equivalent fractions have different numerators and denominators but share the same value.

$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

Takeaway

$\frac{7}{10} - \frac{3}{10} = \frac{4}{10}$

Addition

$\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$