

Year 6

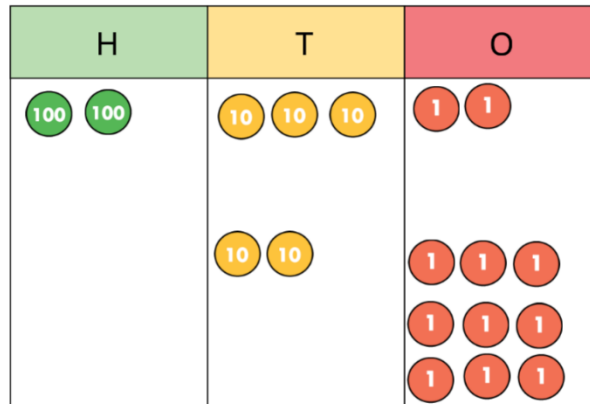
Vocabulary

Addition

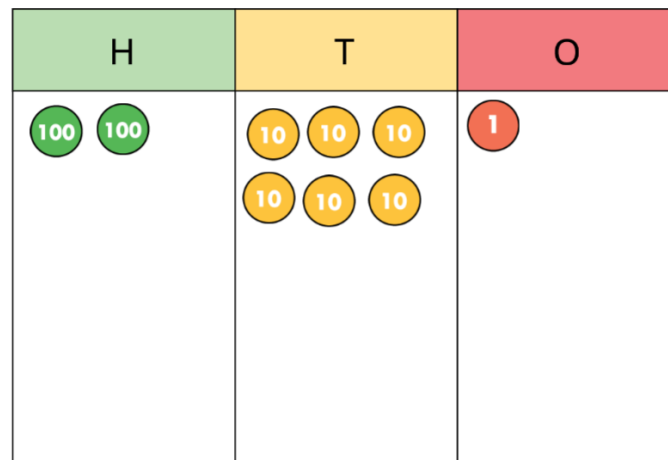
Add
sum
plus
combined
total
increase
altogether
more

Place Value Table

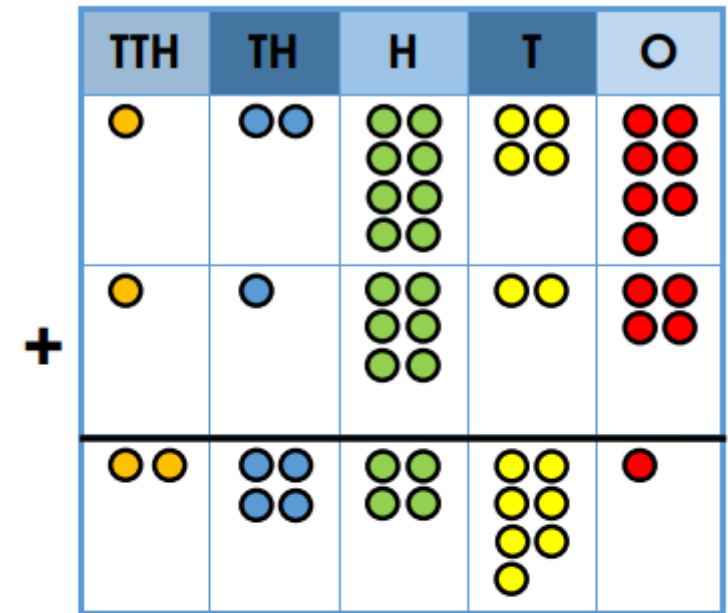
$$232 + 29 = 261$$



If we have more than 10, we exchange counters.



Written Method



	1	2	8	4	7
+	1	1	6	2	4
	2	4	4	7	1
		1		1	

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Vocabulary

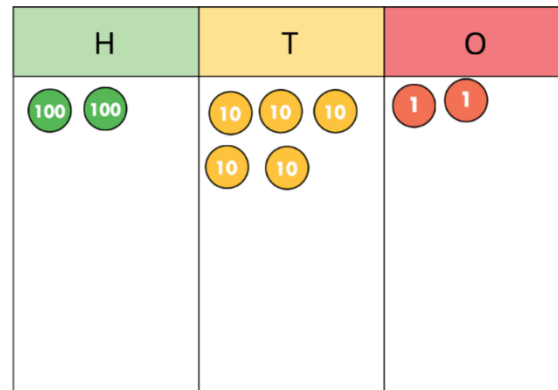
Subtraction

Place Value Counters

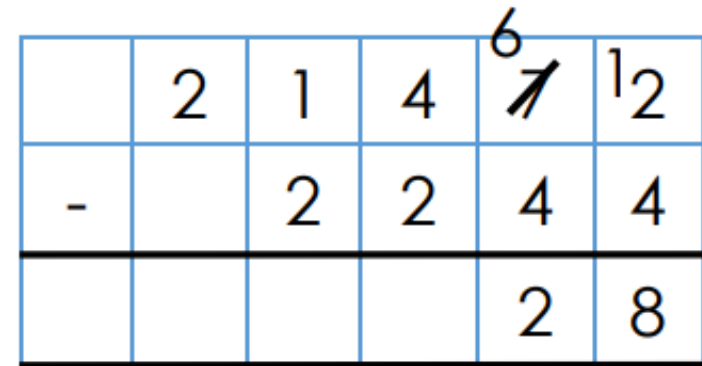
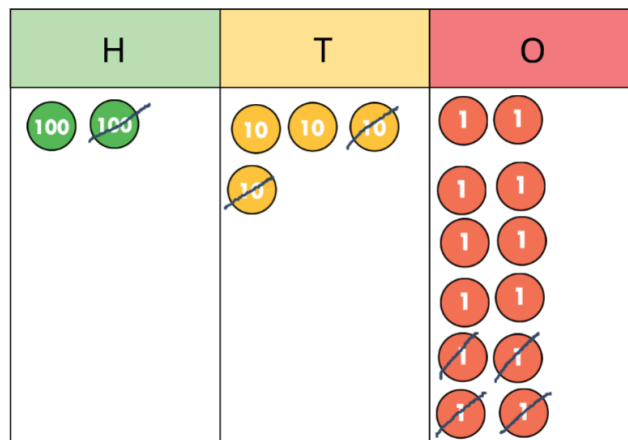
Ten Frame

subtract
minus
decrease
reduce
take away
difference
less
fewer

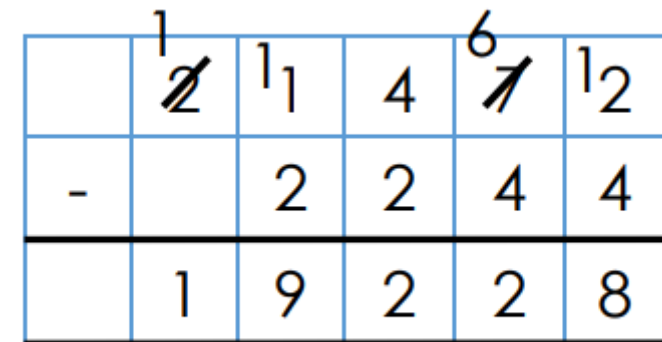
$$252 - 124 =$$



If we can't takeaway we exchange.



If we can't takeaway we exchange.



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Vocabulary

Multiplication and Division

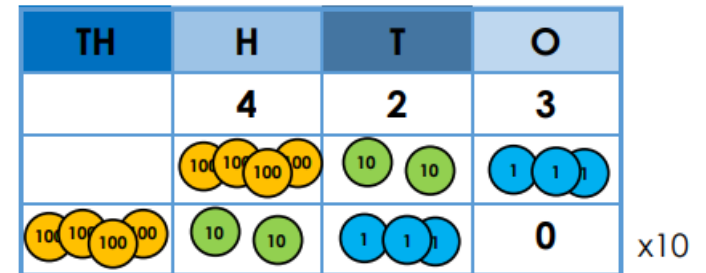
Two-digit Multiplication

Times and Divide by 10, 100 and 10000

Multiply
Times
Double
Count in
—
Equal
groups
Product of

$$\begin{array}{r}
 1^1 2^2 4 \\
 \times 2 6 \\
 \hline
 7^1 4 4 \\
 + 2^1 4 8 0 \\
 \hline
 3 2 2 4
 \end{array}$$

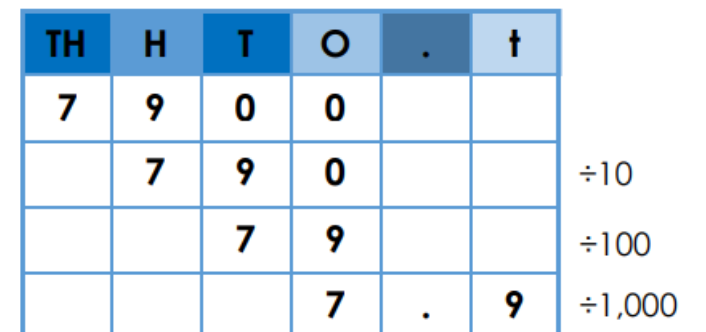
The empty place value spaces are filled with a **0** as a place holder.



423 x 10 = 4,230

When a number is divided by 10, 100 or 1,000, the digits move to the right in the place value column: **1 place** when dividing by 10, **2 places** to divide by 100 and **3 places** to divide by 1,000.

Look what happens when we divide 7,900 by 10, 100 and 1,000:



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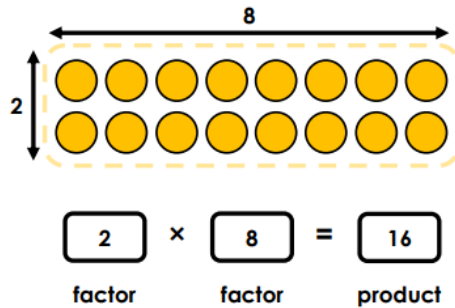
Vocabulary

Division

Divide
Share
Count in
—
Equal
groups
of...

Factors

Factors are the numbers that multiply together to make a product.



Common Factors

Factors of 8	Factors of 28
1 ✓	1 ✓
2 ✓	2 ✓
4 ✓	4 ✓
8	7
	14
	28

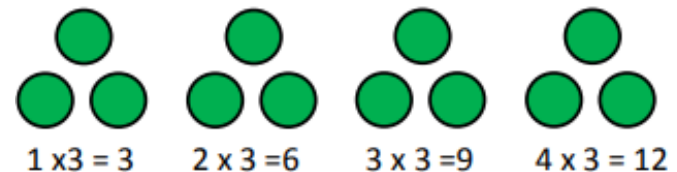
The common factors of **8** and **28** are **1, 2** and **4**.

Written Methods

	0	2	1
6	1	¹ 2	6

Multiples

Multiples are the result of multiplying two numbers together. They can be seen as extended times tables.



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Vocabulary

Fractions

Addition

When we **add fractions** with **different denominators**, we need to find a common denominator.



$$\frac{1}{6} = \frac{2}{12}$$

$$\frac{2}{12} + \frac{5}{12} = \frac{7}{12}$$

Multiplication

$$2 \times 5 = 10$$

$$\frac{4}{9} \times 5 = \frac{20}{9} = 2\frac{2}{9}$$

$$10 + 2\frac{2}{9} = 12\frac{2}{9}$$

Subtraction

$$1\frac{7}{12} - \frac{3}{4} = 1\frac{7}{12} - \frac{9}{12}$$

$$1\frac{7}{12} - \frac{9}{12} = \frac{19}{12} - \frac{9}{12} = \frac{10}{12}$$

Fraction of an Amount

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



Equal parts
Groups
Divide
Equivalent
Numerator
Denominator