



Maths Fluency Year 4

Aut 1	Aut 2	Spring 1	Spring 2	Summer 1	Summer 2
Introduce Q 1-12	Consolidate 1-12 Introduce Q 13-15	Consolidate 1-15 Arithmetic Consolidate 1-12/ Introduce Q 16, 17, 22, 23	Arithmetic Consolidate Questions covered so far	Arithmetic Consolidate Questions covered so far	Arithmetic Consolidate Questions covered so far/ Introduce Q 20,21,24,25,26

1	<p>Addend plus addend equals the sum</p> <p>+ increase ↑</p> <p>Use your place value knowledge. The hundreds column will increase</p>	2	<p>Minuend minus subtrahend is equal to the difference</p> <p>- decrease ↓</p> <p>Use your place value knowledge. The hundreds column will decrease</p>
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Th	H	T	O

Th	H	T	O

3

Addend plus addend equals the sum

$$504 + 90 = 594$$

The 10s column will **increase** by **9**

4

Minuend minus subtrahend is equal to the difference

$$564 - 50 = 514$$

The 10s column will **decrease** by **5**

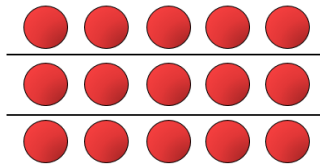


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Th	H	T	O

Th	H	T	O

5 ___ lots of ___ make
 There are ___ rows of ___ that makes _____



There are 3 rows of 5

$$\underline{5} + \underline{5} + \underline{5} = \underline{15}$$

$$\underline{3} \times \underline{5} = \underline{15}$$

6 How many lots of the divisor go into the dividend?

$57 \div 3 = 19$

How many times does 3 go into 5?

It goes into 5 once and has a remainder of 2.

3 | 5²7

1


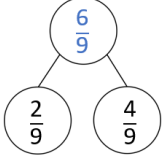
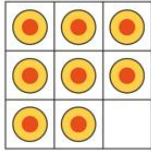
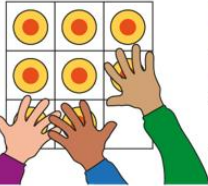
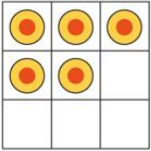
9

How many times does 3 go into 27?

It goes into 27 nine times and has no remainder.



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<p>7</p> <p>Denominator is the same it stays the same</p> <p>Add the numerators</p> $\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$  	<p>8</p> <p>Denominator is the same it stays the same</p> <p>Subtract the numerators</p> <p>First ...</p>  <p>Then ...</p>  <p>Now ...</p>  $\frac{8}{9} - \frac{3}{9} = \frac{5}{9}$
<p>9</p> <p>Addend plus addend equals the sum</p> $1504 + 1000 = 2504$ <p>The 1000s column will increase by 1</p>	<p>10</p> <p>Minuend minus subtrahend is equal to the difference</p> $3564 - 1000 = 2564$ <p>The 1000s column will decrease by 1</p>



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Th	H	T	O

Th	H	T	O

11

Addend plus addend equals the sum
When adding, if the (ones/ tens/ hundreds) is equal to (10/ 100/ 1,000 etc), we must regroup to the column on the left.

Larger number first
Start with the Ones
Larger than 9 carry under the line

12

Minuend minus subtrahend is equal to the difference
If we cannot subtract, we must exchange from the column to the left.

Larger number first
Start with the Ones
Top number smaller than bottom number
Knock next door to exchange a ten



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Th	H	T	O
6	2	6	1

	4	8	0	3
+	1	4	5	8
	6	2	6	1
	1	1		

$$3,402 - 1,319 = 2,083$$

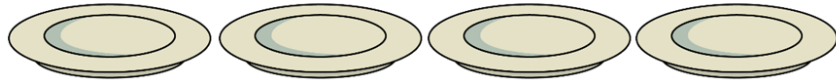
Th	H	T	O
2	0	8	3

	3	4	0	2
-	1	3	1	9
	2	0	8	3



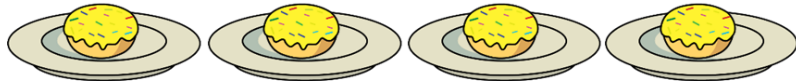
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13



There are 4 plates. $0 \times 4 = 0$
Each plate has 0 doughnuts on it. $4 \times 0 = 0$
There are 0 doughnuts altogether.

Multiplying anything by 0 gives an answer of 0 as this is the same as no lots of anything.



There are 4 plates. $4 \times 1 = 4$
Each plate has 1 doughnut on it. $1 \times 4 = 4$
There are 4 doughnuts altogether.

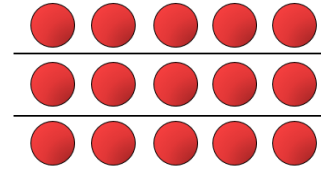
Multiplying anything by 1 gives the same number as this is the same as one lot of anything

Dividing anything by 1 gives the same number, as this is just one group of anything.

14

__ lots of __ make

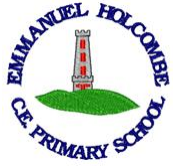
There are __ rows of __ that makes ____



There are 3 rows of 5

$$\underline{5} + \underline{5} + \underline{5} = \underline{15}$$

$$\underline{3} \times \underline{5} = \underline{15}$$



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15

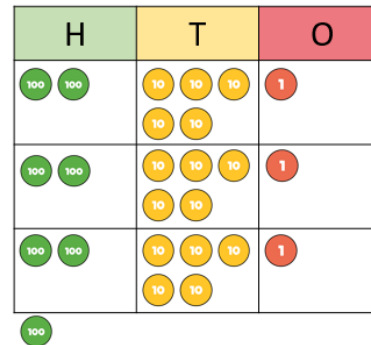
$2 \times 5 \times 3$	$3 \times 2 \times 5$	$5 \times 3 \times 2$
10×3	6×5	15×2
30	30	30

Multiply left to right

16

Larger number first
Place value is correct
Multiply from the ones first

$$251 \times 3 = 753$$



	H	T	O
	2	5	1
×			3
	7	5	3
	1		

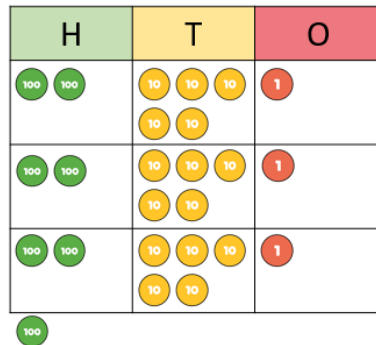


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17

Larger number first
Place value is correct
Multiply from the ones first

$$251 \times 3 = 753$$



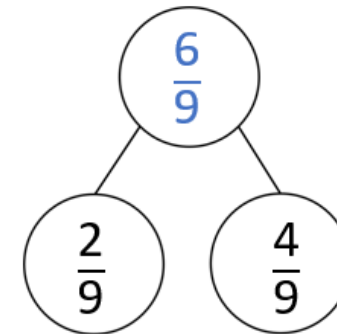
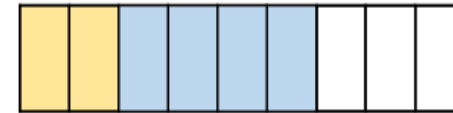
	H	T	O
	2	5	1
×			3
	7	5	3
	1		

18

Denominator is the same it stays the same

Add the numerators

$$\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$$





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19

Denominator is the same it stays the same

Subtract the numerators

First ... Then ... Now ...

$$\begin{array}{r} 8 \\ 9 \\ - 3 \\ \hline 5 \end{array}$$

20

Addend plus addend equals the sum

Largest number first

Think about decimals like money £__._p

Place value is correct

Start with the Ones

$$7.75 + 2.46 = 10.21$$

	Tens	Ones	Tenths	Hundredths
7.75		1 1 1	0.1 0.1 0.1	0.01 0.01 0.01
+ 2.46		1 1	0.1 0.1 0.1	0.01 0.01
10.21	1	0	2	1

10 1 0.1



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21

Addend plus addend equals the sum

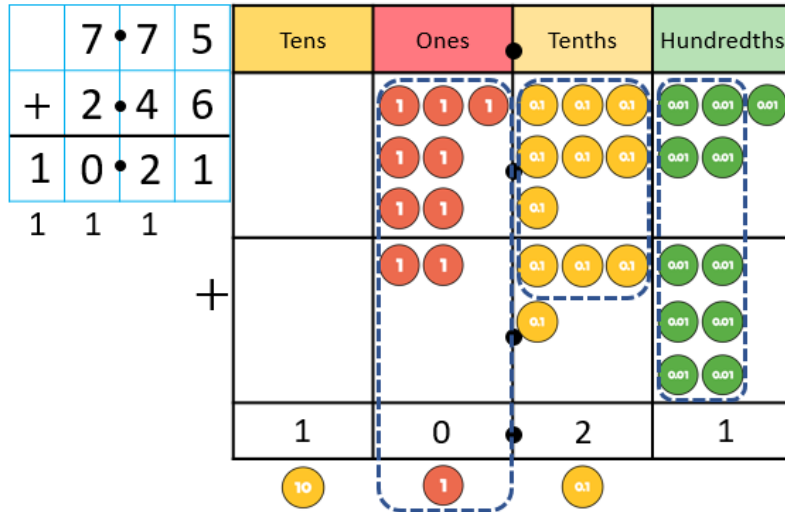
Largest number first

Think about decimals like money £__._p

Place value is correct

Start with the Ones

$$7.75 + 2.46 = 10.21$$

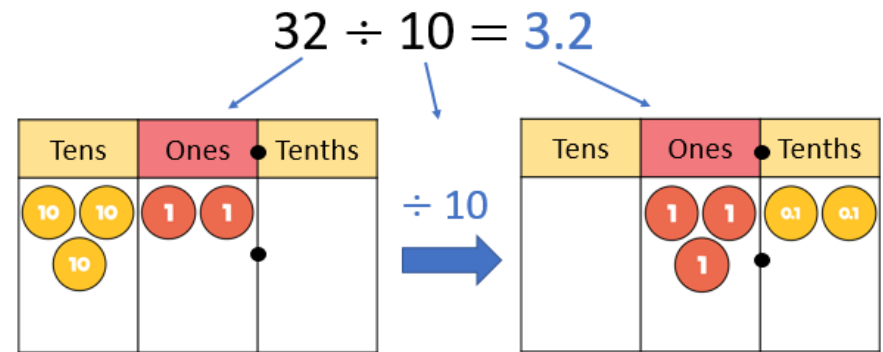


22

When dividing by 10 the number is being split into 10 equal parts

The number is 10 times smaller

When dividing by 10, we move the digits one place to the right





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23

When dividing by 100 the number is being split into 100 equal parts.
The number is 100 times smaller.
When dividing by 100, we move the digits two place to the right.

$$3 \div 100 = 0.03$$

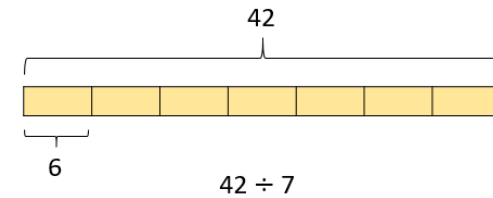
Tens	Ones	Tenths	Hundredths
	● ● ●	●	
	0	0	3

24

Fraction of an amount- \div by the denominator

x by the numerator

$$\frac{1}{7} \text{ of } 42 = 6$$





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25

Addend plus addend equals the sum

Larger number first

Think about decimals like money £__.__p

Place value is correct

Start with the Ones

$$2.5 + 3.16 = 5.66$$

Ones	Tenths	Hundredths
● ● ●	●	● ● ●
●		● ● ●
● ●	● ● ● ●	
	● ●	
5	6	6

26

Addend plus addend equals the sum

Larger number first

Think about decimals like money £__.__p

Place value is correct

Start with the Ones

$$2.5 + 3.16 = 5.66$$

Ones	Tenths	Hundredths
● ● ●	●	● ● ●
●		● ● ●
● ●	● ● ● ●	
	● ●	
5	6	6

- <https://mathsbot.com/primary/year4Mini>
- <https://vimeo.com/911532990>