



15.01.21

IALT: divide 2 digit numbers by 1 digit using formal methods.

$18 \div 6$

$180 \div 6$

$1800 \div 6$

$50 \div 5$

$5 \div 5$

$12 \div 6$

$1200 \div 2$

Challenge:

Partition and Divide:

$824 \div 2$

<https://www.topmarks.co.uk/mathsgames/daily10>

What is the bus stop method?

Quotient

Formal Method

Divisor

Dividend

Dividend $\overline{-}$ divisor = quotient

$$77 \div 11 = 7$$

What is the bus stop method?

Formal Method

2

126

You always begin your sums with the 100s column.

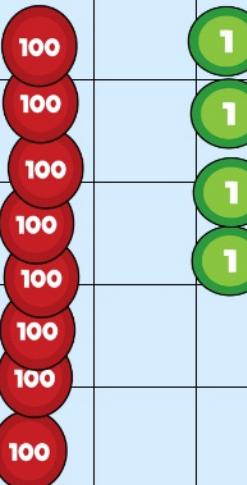
How is this different from other methods of working out sums?

Zach solves $804 \div 4 =$

Step 1: Build the number



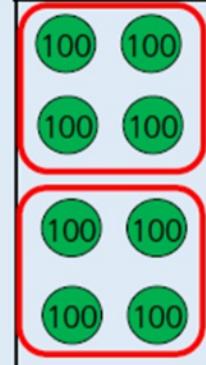
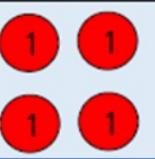
First we can build the number.

$$4 \overline{)804}$$


Zach solves

$$804 \div 4 =$$

Step 2: Group the hundreds

H	T	O
		
		

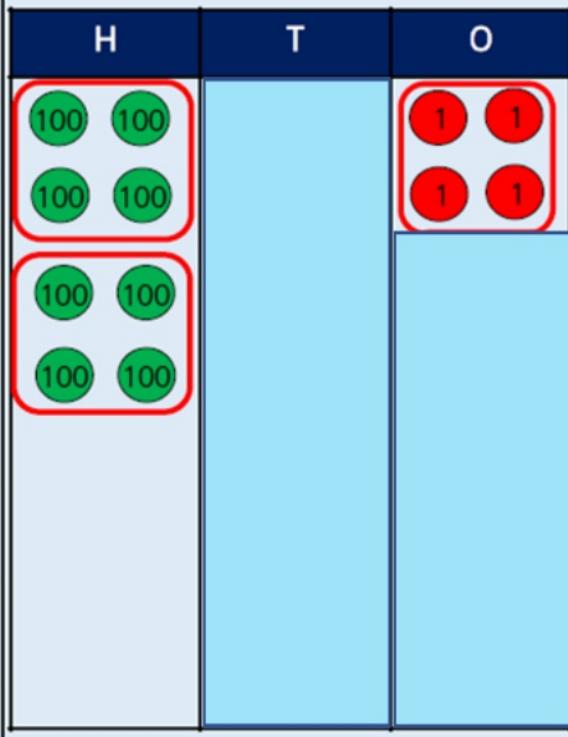
Next we will group the hundreds.
How many times does 4 go into 8?



Zach solves

$$804 \div 4 =$$

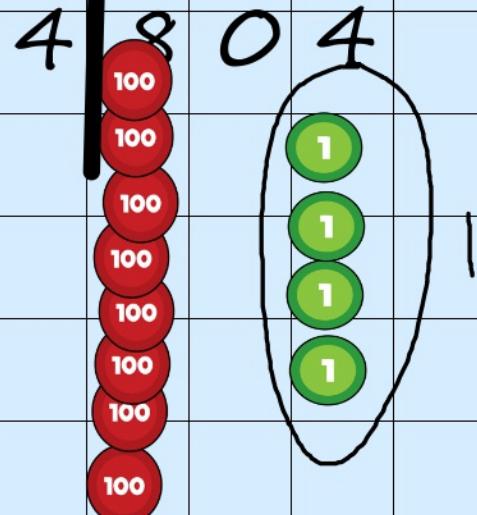
Step 3: Group the tens and ones



Group the 10s and 1s.

How many groups can you make?

2 0 1



1

There are 69 strawberries. If 3 strawberries fit on to one stick, how many full sticks can be made?



$$69 \div 3 =$$

How many sticks can I
make?

Partition 69....

$$\begin{array}{r} 3 \\ \overline{)69} \end{array}$$



We can represent this differently
Try and work this out.



Try this one...

7 700



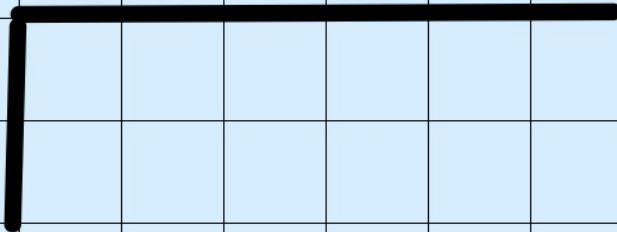
$48 \div 2 =$

Try to lay this question out in the formal method below. You can always use place value counters to help you.



$99 \div 3 =$

Try to lay this question out in the formal method below. You can always use place value counters to help you.



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$44 \div 4$

$40 \div 2$

$40 \div 4$

$39 \div 3$

$66 \div 3$

$46 \div 2$

$96 \div 3$

$92 \div 4$

$64 \div 2$

$966 \div 3$

$505 \div 5$

$844 \div 4$

Use Inverse to check -

A formal multiplication method.

ones

tens

hundreds

thousands

$842 \div 2 = 421$

$969 \div 3 = 323$

$848 \div 4 = 212$

$603 \div 3 =$

$9999 \div 3 =$

$6009 \div 3 =$

÷

Answers:

$44 \div 4 = 11$

$40 \div 2 = 20$

$40 \div 4 = 10$

$39 \div 3 = 13$

$66 \div 3 = 22$

$46 \div 2 = 23$

$96 \div 3 = 32$

$92 \div 4 = 23$

$64 \div 2 = 32$

$966 \div 3 = 322$

$505 \div 5 = 101$

$844 \div 4 = 211$

ones

tens

hundreds

thousands

$842 \div 2 = 421$

$969 \div 3 = 323$

$848 \div 4 = 212$

$603 \div 3 = 201$

$9999 \div 3 = 3333$

$6009 \div 3 = 2003$

Use Inverse to check -

A formal multiplication method.

Mild:

Use $<$, $>$ or $=$ to complete the statements.

$69 \div 3 \bigcirc 96 \div 3$

$96 \div 4 \bigcirc 96 \div 3$

$91 \div 7 \bigcirc 84 \div 6$

Spicy:

Explain the difference between the informal method of division and the formal method.

Answers:

Spicy:

Mild:

Use <, > or = to complete the statements.

$$69 \div 3 < 96 \div 3$$

$$96 \div 4 < 96 \div 3$$

$$91 \div 7 < 84 \div 6$$

Explain the difference between the informal method of division and the formal method.