Written methods – contracted multiplication

Н	Т	U
	¹ 5	4
0 0 0 0 0	0 0 0 0 0	3
1	6	2
	H 1	Η Τ ¹ 5 1 6

Start with the units. $4 \times 3 = 12$ units.

Rename this as 1 ten and 2 units. Put the 2 in the units column and regroup the 1 to the tens column.

 3×5 plus the regrouped 1 is 16 tens.

Rename this as 1 hundred and 6 tens.





Use contracted multiplication to solve these word problems:

 a On a farm, 6 lambs were born every day over 25 days. How many lambs were born in total?



b For my school fete day, I baked
9 trays of cupcakes. If there are
14 cupcakes on each tray, how
many did I bake in total?





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Written methods – extended multiplication



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Written methods – short division





Written methods – short division with remainders



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 $5 \times 6 + 3 = 33$

Written methods – short division with 3-digit numbers

In short division with 3-digit numbers 468 is 400 + 60 + 8 400 divided by 2 is 200, so we put a 2 60 divided by 2 is 30, so we put a 3 in 5 8 is divided by 2 is 4, so we put a 4 in t	we split the number: in the hundreds place. the tens place. the units place. $\begin{pmatrix} H \\ 2 \\ 3 \\ 4 \\ \end{pmatrix} \begin{pmatrix} 4 \\ 6 \\ 8 \end{pmatrix}$
1 Practise splitting these:	
a 368 is + +	b 445 is + +
c 567 is + +	d 235 is + +
2 Now put these split numbers back tog	gether:
a 500 + 70 + 8 is	b 700 + 90 + 4 is
c 200 + 40 + 6 is	d 800 + 50 + 5 is
3 Solve these division problems with 3-	digit numbers:
a 4) 8 4 4	b $3) 6 9 3$
c 2) 8 4 2	d 2)4 8 8
4 Here are two division problems with the missing numbers by using the num	missing numbers in the questions. Find out mbers that are part of the answer as clues.
$\begin{array}{c c} 1 & 2 \\ \hline \\ a \\ \hline \end{array} \\ 4 \\ \hline 4 \\ 4 \\ \end{array}$	3 b 3 3 6
A Multiplicatio	on and Division

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Written methods – short division with 3-digit numbers



Practise these problems. We have put the zero in to remind you:



6 Practise these problems. This time, you need to remember the zero!



