January

12 Times tables

12 x 0	=	0
12 x 1	=	12
12 x 2	=	24
12 x 3	=	36
12 x 4	=	48
12 x 5	=	60
12 x 6	=	72
12 x 7	=	84
12 x 8	=	96
12 x 9	=	108
12 x 10	=	120
12 x 11	=	132
12 x 12	=	144

Whiteboards - Arithmetic Subtraction

1. $80 - 76$	2. $6695 - 3354$
3. $1 - 0.03$	4. $628.5 - 39.17$

Finished? Do response to marking

Arithmetic Answers

1.↻ 4	2.↻ 3341
3.↻ 0.97	4.↻ 589.33

What do you need to practice?
How confident were you with answering these questions?

04.01.21

LO: To multiply up to 3 digits by 1 digit (recap)

Key words: multiply, formal method,multiplicand, multiplier

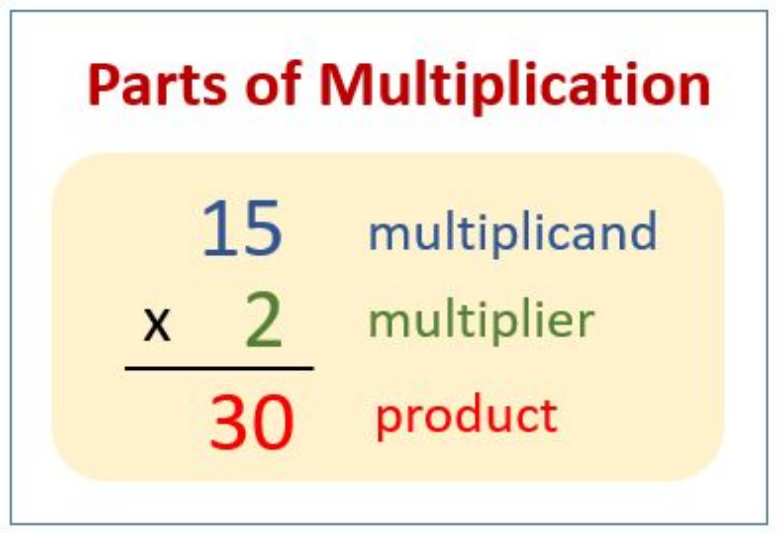
RESPONSE TO MARKING

Home learning support videos if needed. Please click link then go to these videos.
https://whiterosemaths.com/homelearning/year-5/week-1-number-multiplication-division/

Multiply 2-digits by 1-digit

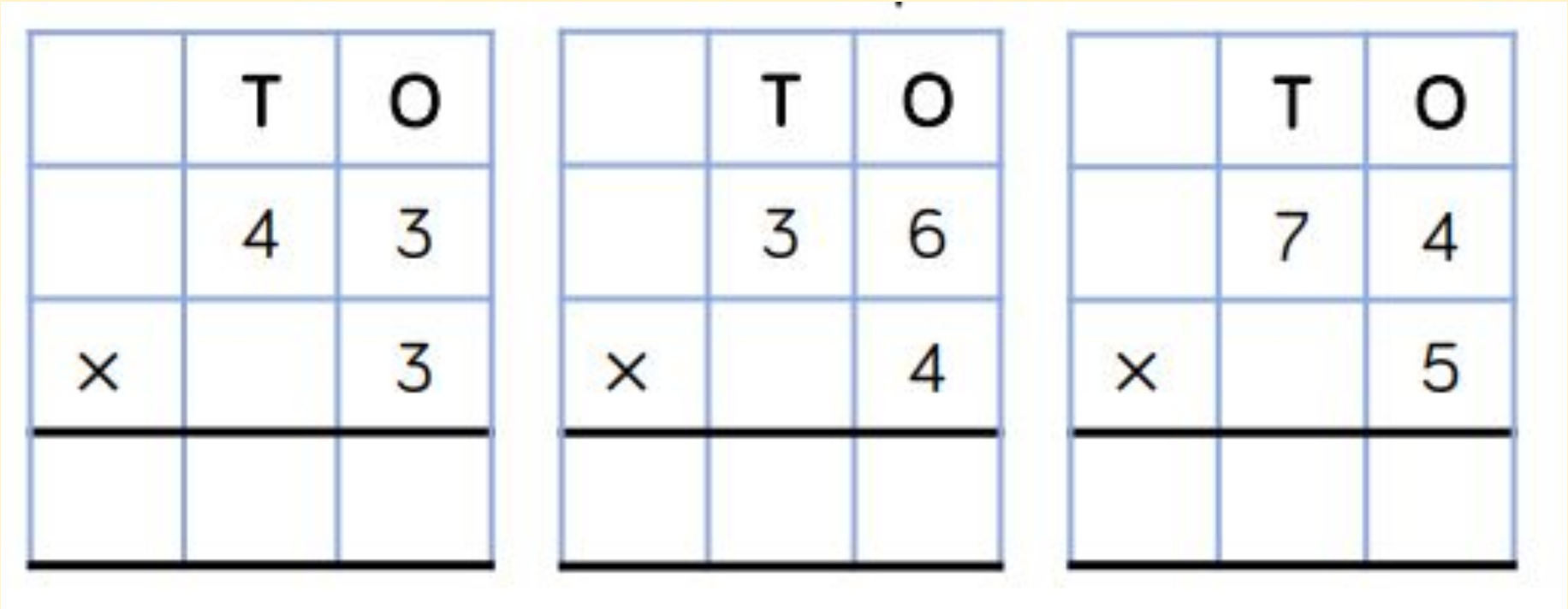
Multiply 3-digits by 1-digit

In Years 3 and 4 you were introduced to formal methods of multiplication. Today we are going to recap this before moving onto year 5 multiplication objectives.



Quick Assessment - copy and complete in books

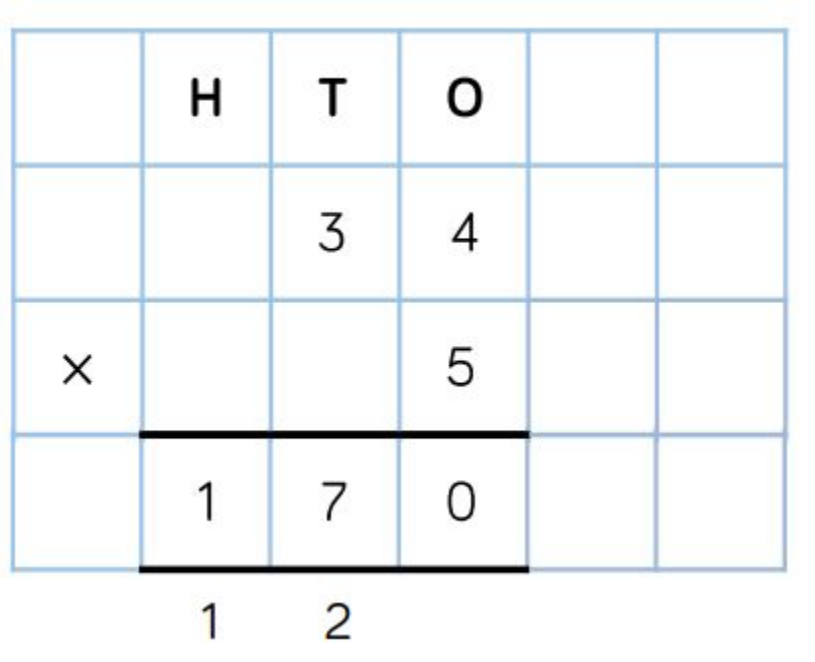
REMEMBER 1 digit per box as shown below



	T	O
	4	3
×		3

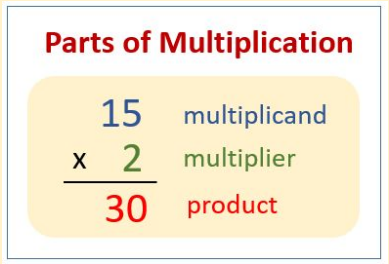
	T	O
	3	6
×		4

	T	O
	7	4
×		5

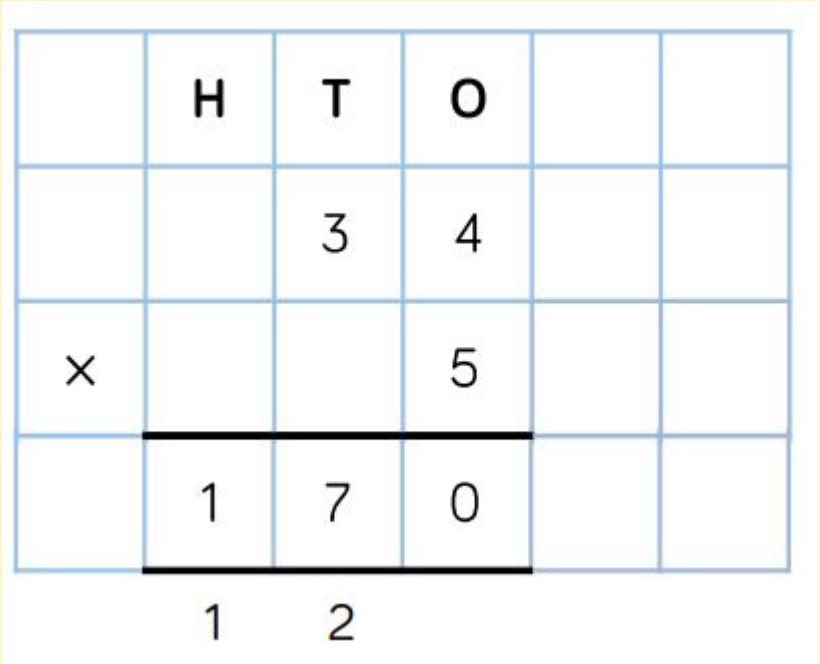


What are the steps in this calculation?

What was done 1st.2nd.3rd…….?



Strategy card



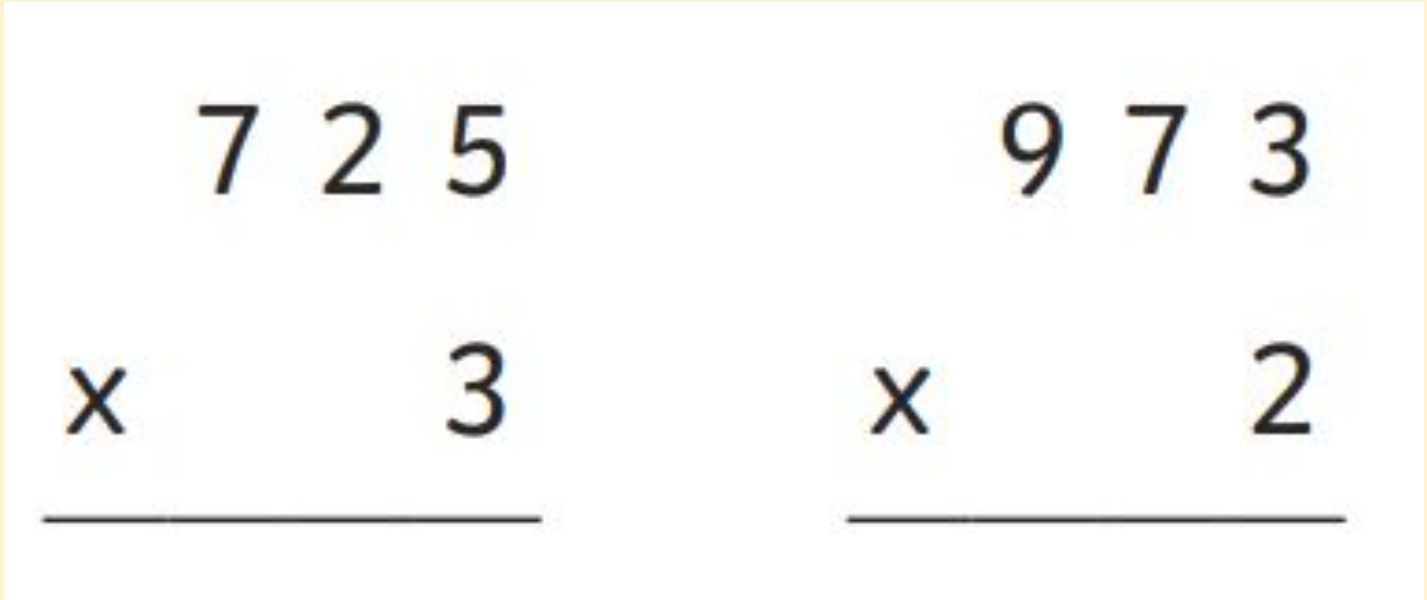
- Ensure the larger number is at the top
- Start from the ones column
- ***Multiply*** the ***multiplicand*** and ***multiplier*** together
- If *the* ***product*** is more than 9 then you will need to exchange to the next digit (this will be added to next column answer)

Thinking Deeper

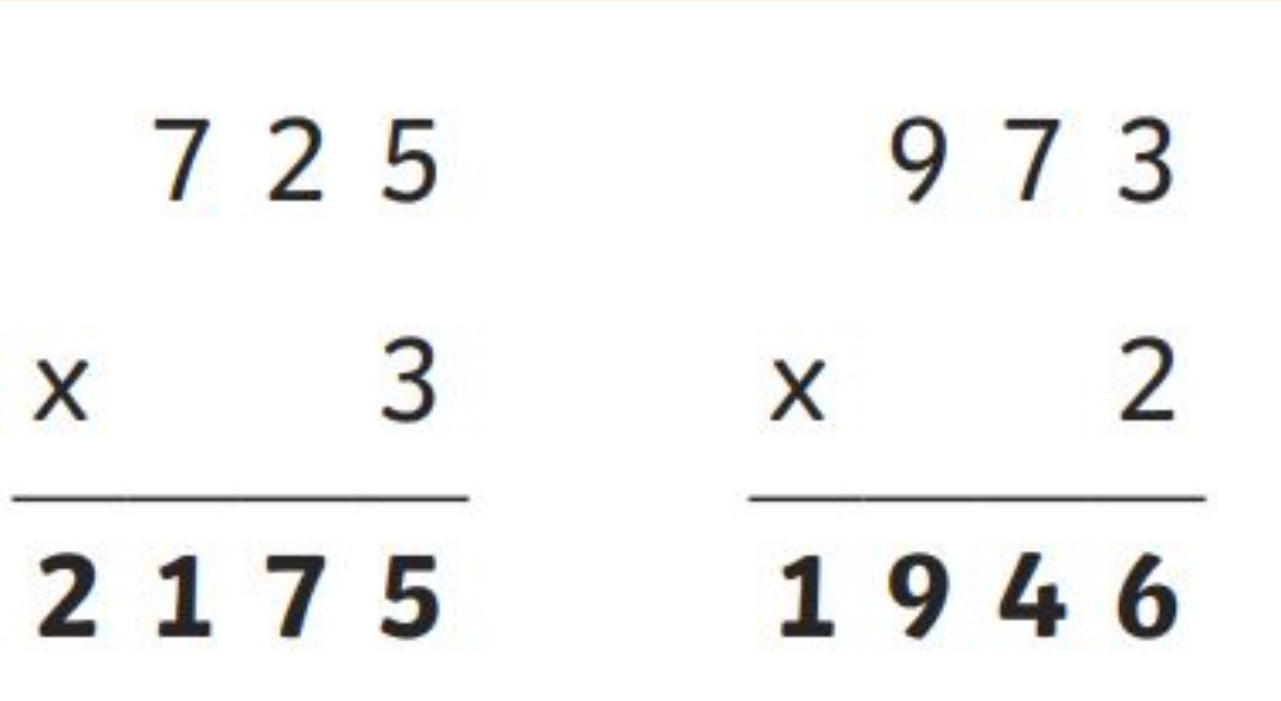
Always, sometimes or never?

When multiplying a two-digit number by a one-digit number, the product has 3 digits.

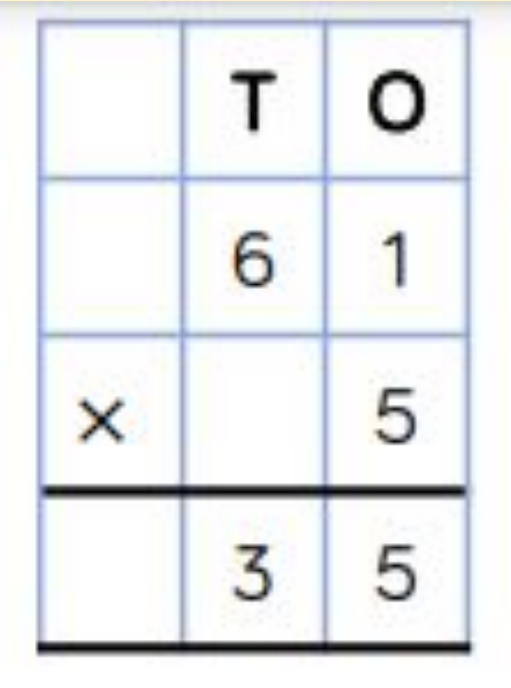
Try these in your books



Mark your answers



Reasoning and problem solving



	T	O
	6	1
×		5
	3	5

Explain the mistake this person made.

How can you avoid making the same mistake?

What is the correct answer?

04.01.21

LO: To multiply up to 3 digits by 1 digit (recap)

Key words: multiply, formal method,multiplicand, multiplier

TASK: **<u>Use strategy card for support before asking teacher</u>**

- **Complete sheet.**
- **You can decide where you start on the sheet. mild , medium or hot.**
- **Ensure you complete at least one thinking deeper question.**
- **If finished please do extension questions**

Mild

Task 1: mental multiplication

a) 11 x 5 b) 30 x 3 c) 44 x 2 d) 101 x 4

Task 2 : multiplying 2 digits by 1 digit

1. 24 × 4

2. 22 × 5

3. 18 × 5

4. 26 × 3

5. 12 × 5

6. 48 × 2

7. 41 × 9

Task 3: Reasoning R

	T	O
	7	4
×		7
4	9	8

Copy out in your book. Underneath do the correct calculation then explain the mistake.

This person made a mistake by doing .....

Task 4: Thinking Deeper

Always, sometimes or never?

When multiplying a two-digit number by 8 the product is odd.

Show at least 4 examples to prove your answer and explanation.

Medium

Task 1: multiply 2 digits by 1 digit

9.	10.	11.	12.
44 × 7 =	32 × 7 =	62 × 3 =	66 × 4 =
575 × 2 =	897 × 4 =	919 × 3 =	843 × 5 =

Task 2: Reasoning R

Copy out in your book. Underneath do the correct calculation then explain the mistake.

This person made a mistake by doing .....

	T	O
	2	6
×		4
8	2	4

Task 3: Thinking deeper

Always, sometimes or never?

When multiplying a two-digit number by 7 you need to exchange.

Show at least 4 examples to prove your answer and explanation.

Hot

Task 1: Multiply 3 digits by 1 digit

222	597	585	773
x 7	x 4	x 6	x 6
743	607	719	857
x 8	x 9	x 7	x 9

Task 2:

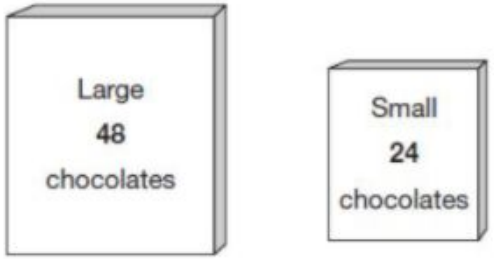
Do the thinking deeper question in medium.

Task 3: Problem solving and Reasoning PS/R

A

Ken buys 3 large boxes and 2 small boxes of chocolates.

Each large box has 48 chocolates. Each small box has 24 chocolates.



How many **chocolates** did Ken buy altogether?

B

Here are five digit cards.

Use **all** five digit cards to make this correct.

Answers - Mild

Task 1

A - 55 B - 90 C - 88 D - 404

Task 2

1) 96 2)110 3)90 4)78 5)60 6)96 7)369

Task 3

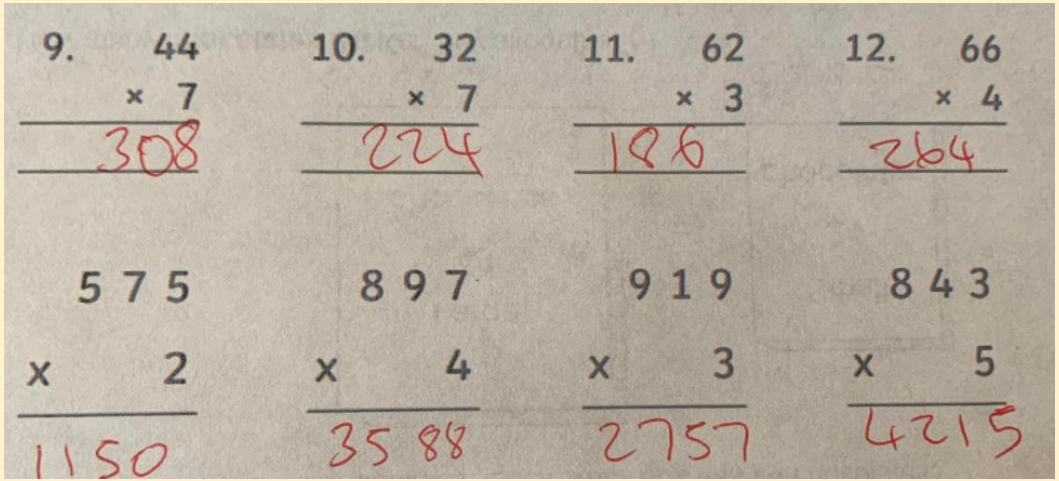
The answer should be 518. The person made a mistake by not exchanging from the ones column into the tens, They should have added 2 to their answer of 7x7.

Task 4

This is never true because all multiples of 8 are even, therefore the ones column will always be even.

Answers Medium

Task 1



Task 2

The answer should be 104. The person made a mistake by not exchanging properly. They have put the exchange in the incorrect position.

Task 3

Sometimes: most two-digit numbers need exchanging, but not 10 or 11

Answers Hot

Hot

Task 1: Multiply 3 digits by 1 digit

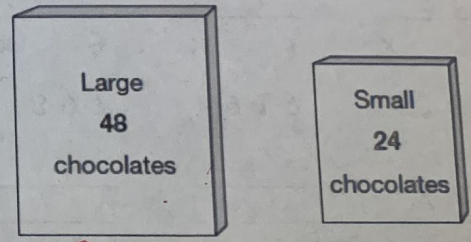
1 1 222 x 7 1554	3 2 597 x 4 2388	5 3 585 x 6 3510	4 1 773 x 6 4638
743 x 8 5944	607 x 9 5463	719 x 7 5033	857 x 9 7713

Task 3: Problem solving and Reasoning PS/R

A

Ken buys 3 large boxes and 2 small boxes of chocolates. 192

Each large box has 48 chocolates. Each small box has 24 chocolates.

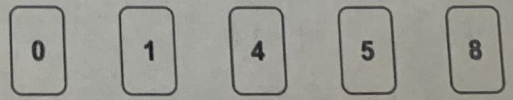


3 x 48 24 x 2

How many **chocolates** did Ken buy altogether?

B

Here are five digit cards.

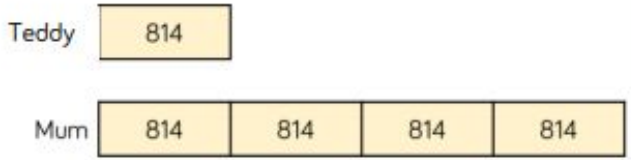


Use **all** five digit cards to make this correct.

54 × 2 = 108

Teddy and his mum were having a reading competition.
In one month, Teddy read 814 pages.

His mum read 4 times as many pages as Teddy.
How many pages did they read altogether?
How many fewer pages did Teddy read?
Use the bar model to help.



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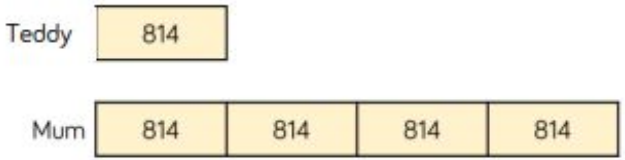


$814 \times 5 = 4{,}070$

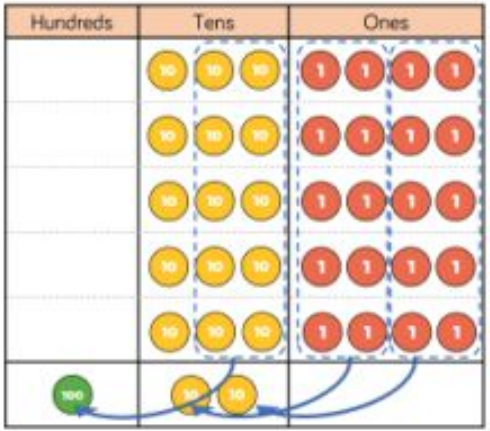
They read 4,070 pages altogether.

$814 \times 3 = 2{,}442$

Teddy read 2,442 fewer pages than his mum.

Extra

Whitney uses place value counters to calculate 5 × 34



	H	T	O		
		3	4		
×			5		
		2	0	(5 × 4)	
+	1	5	0	(5 × 30)	
	1	7	0		

Use Whitney's method to solve

5 × 42

23 × 6

48 × 3