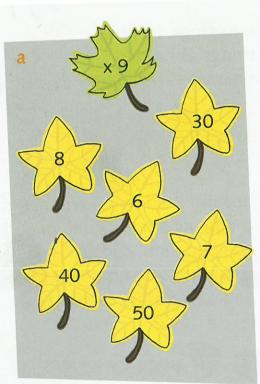
t 8, Week I, Lesson 3

ultiplication TO x TO using the expanded ritten method

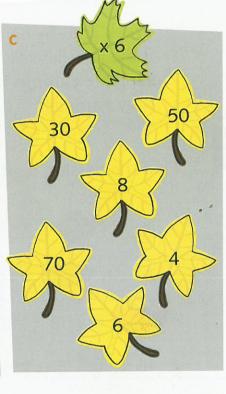
Use the expanded written method of long multiplication to calculate TO × TO

Estimate and check the answer to a calculation

For each question, multiply each of the numbers on the yellow leaves by the number on the green leaf at the top.







1 Approximate the answer to each calculation.

Example $63 \times 38 \rightarrow 60 \times 40 = 2400$

- $a 46 \times 38$
- b 72 × 39
- $c 58 \times 56$

- d 64 × 83
- e 67 × 49
- f 96 × 26

- g 88 × 38
- $h 74 \times 68$
- i 56 × 93



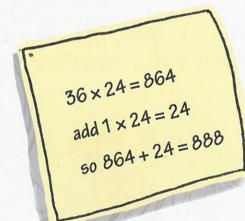
2 Use the expanded written method to work out the answers to the calculations in Question 1. Choose which method is easiest for you.

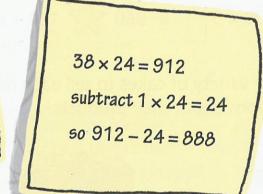
Example									
Th	Н	T	0		Th	Н	T	0	
		6	3				6	3	
×		3	8		×		3	8	
	5	0 ²	4	(63×8)	1	8	9	0	(63 x 30)
1	8	9	0	(63×30)		5	0 ²	4	(63 x 8)
2	3	9	4		2	3	9	4	
1					1				

Challeng 3

Ali tried to work out the answer to 37×24 on his calculator but he found that the 7 key on the calculator was broken. He used these two methods to find his answer:

You will need:
• calculator







The 7 key is still broken. Explore methods of finding the answer to the following calculations using other keys on the calculator.

Record your methods.

- a 67×58
- b 45 × 27
- c 77 × 38

- d 73 × 47
- e 97 × 57
- f 37 × 37

- g 77 × 77
- h 397 × 965
- i 428 × 768

- 647×321
- k 274 × 83
- 175 × 175



