

Multiplication HTO \times TO using the formal written method



- Use the formal written method of long multiplication to calculate HTO \times TO
- Estimate and check the answer to a calculation

Challenge

1 Round these numbers to the nearest 10.

64 38 89 179 654 327 793

2 Round these numbers to the nearest 100.

415 625 811 557 478 762 899

3 Work these calculations out mentally.

a 360×8 b 430×6 c 570×4 d 820×9

e 57×80 f 64×30 g 35×70 h 98×50

Example

$$246 \times 38 \rightarrow 200 \times 40 = 8\,000$$

	Th	H	T	O
		2	4	6
×			3	8
	1	9 ³	6 ⁴	8
	7 ¹	3 ¹	8	0
	9	3	4	8
	1	1		

	Th	H	T	O
		2	4	6
×			3	8
	7 ¹	3 ¹	8	0
	1	9 ³	6 ⁴	8
	9	3	4	8
	1	1		

- 1 Estimate the answer to each calculation. Find the answer using the formal written method. Then compare your answer with your estimate.

a 462×35

b 413×49

c 258×51

d 628×25

e 247×69

f 314×86

g 888×88

h 546×78

i 666×77



- 2 Five of these calculations have the same answer. Can you find them?

238×72

453×42

952×18

4194×4

378×52

476×36

2832×6

1904×9

376×46

4284×4

Find the missing digits in these calculations.

a

	2	□	9
×		□	7
<hr/>			
	□	□	3 □
	□	□	7 □
<hr/>			
	8	1	0 □

b

	3	6	5
×		□	□
<hr/>			
	2	9	2 0
	7	3	0 0
<hr/>			
□	□	□	□ □

c

	□	□	□
×		6	9
<hr/>			
	3	6	5 4
	2	4	3 6 0
<hr/>			
□	□	□	□ □

