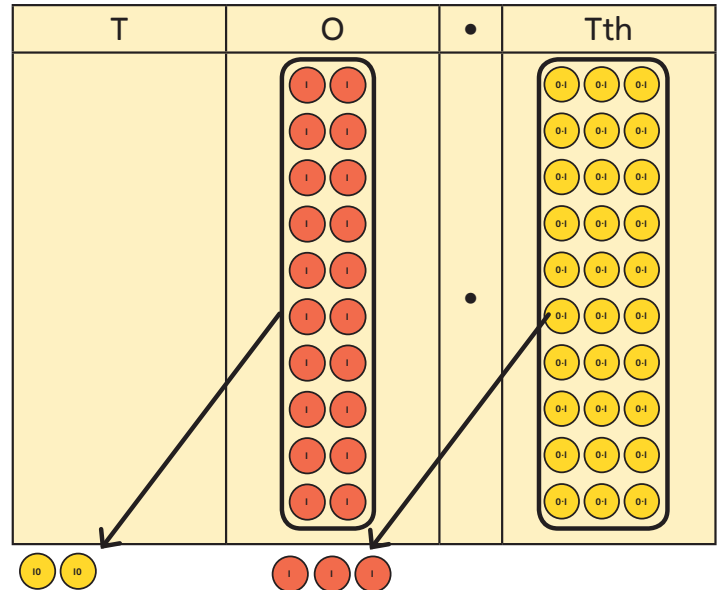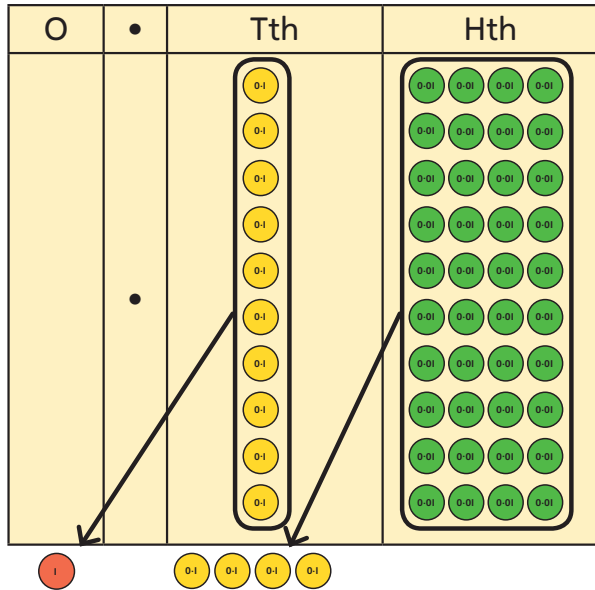# Think together

1 Use the counters and a place value grid to work out these multiplications.

a) $0.14 \times 10 =$ ☐

b) $2.3 \times 10 =$ ☐

2 Multiply each of these numbers by 10.

a)

T	O	•	Tth	Hth
	3	•	7	
		•		

c)

T	O	•	Tth	Hth
	2	•	3	q
		•		

b)

T	O	•	Tth	Hth
	4	•	5	
		•		

d)

T	O	•	Tth	Hth	Thth
	0	•	1	q	6
		•			

3 Complete the multiplications.

a) $0·1 \times 10 = \boxed{}$

$1·2 \times 10 = \boxed{}$

$5·7 \times 10 = \boxed{}$

$19·1 \times 10 = \boxed{}$

b) $0·72 \times 10 = \boxed{}$

$1·25 \times 10 = \boxed{}$

$5·71 \times 10 = \boxed{}$

$19·16 \times 10 = \boxed{}$

c) $0·256 \times 10 = \boxed{}$

$1·256 \times 10 = \boxed{}$

$31·126 \times 10 = \boxed{}$

d) With a partner, look at the digits in each number that is being multiplied by 10.

What do you notice about the digits in the answers?
What is the same and what is different?

4 Find the missing numbers in these multiplications.

CHALLENGE

a) $10 \times 3·9 = \boxed{}$

b) $10 \times 11·6 = \boxed{}$

c) $\boxed{} \times 10 = 4·56$

d) $\boxed{} \times 10 = 12·62$

e) $\boxed{} \times 10 = 3·2$

f) $\boxed{} \times 10 = 15·86$

I can multiply numbers by 10 without using counters and a place value grid.

I notice that when I multiply by 10, the digits move 1 place to the left. I wonder if this always happens.

→ Practice book 5C p39