Multiply by 10, 100 and 1,000



1 Complete the calculations and sentences.

Use place value counters to help you.

| Th | Н | Т | 0 | Tth | Hth |
|----|---|---|---|-----|-----|
| | | | | | |
| | | | • | | |

α) 2.3 × 10 =

When the number is multiplied by 10 the counters move place to the left.

b) 2.3 × 100 =

When the number is multiplied by 100 the counters move places to the left.

c) 2.3 × 1,000 =

When the number is multiplied by 1,000 the counters move places to the left.

2 Complete the diagram.





a) Draw counters on the place value charts to represent each calculation.

$$4.4 \times 1$$

| Th | Н | Т | 0 | Tth | Hth |
|----|---|---|---|-----|-----|
| | | | | | |
| | | | | | |

$$4.4 \times 10$$

| Th | Н | Т | 0 | Tth | Hth |
|----|---|---|---|-----|-----|
| | | | | | |
| | | | | | |

4.4×100

| Th | Н | Т | 0 | Tth | Hth |
|----|---|---|---|-----|-----|
| | | | | | |
| | | | | | |

$$4.4 \times 1,000$$

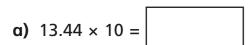
| Th | Н | Т | 0 | Tth | Hth |
|----|---|---|---|-----|-----|
| | | | | | |
| | | | | | |

b) Complete the calculations.

What do you notice?



Complete the calculations.



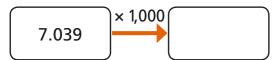
× 10

5 Complete the diagrams.

7.039







What do you notice? Why does this happen?



6 Write >, < or = to compare the number sentences.

7 Kim is calculating 14.3 × 200 She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

8 Use the cards to complete the calculation.

You can use each card more than once.

How many ways is it possible to complete this calculation? Talk about it with a partner.



