

1 Complete the calculations and sentences.

Use place value counters to help you.

| Th | H | T | O | Tth | Hth |
|----|---|---|---------|-----------------|-----|
| | | | ● ● ● ● | ● ● ● ● ● ● ● ● | |

a) $2.3 \times 10 = \square$

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

b) $2.3 \times 100 = \square$

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

c) $2.3 \times 1,000 = \square$

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

2 Complete the diagram.



3 a) Draw counters on a place value chart to represent each calculation.

- 4.4×1 4.4×10 4.4×100 $4.4 \times 1,000$

b) Complete the calculations.

$4.4 \times 1 = \square$

$4.4 \times 100 = \square$

$4.4 \times 10 = \square$

$4.4 \times 1,000 = \square$

What do you notice?

4 Complete the calculations.

a) $13.44 \times 10 = \square$

d) $4.4 \times \square = 4,400$

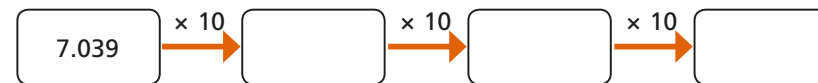
b) $41.4 \times 100 = \square$

e) $\square = 1.03 \times 100$

c) $0.415 \times 1,000 = \square$

f) $30.44 = \square \times 10$

5 Complete the diagrams.



b) Complete the calculations.

$4.4 \times 1 = \square$

$4.4 \times 100 = \square$

$4.4 \times 10 = \square$

$4.4 \times 1,000 = \square$

What do you notice?



4 Complete the calculations.

a) $13.44 \times 10 = \square$

d) $4.4 \times \square = 4,400$

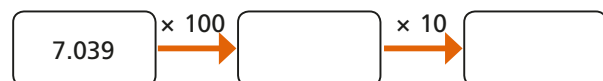
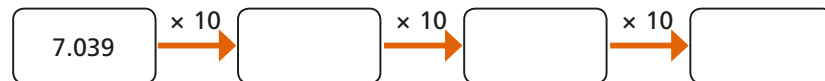
b) $41.4 \times 100 = \square$

e) $\square = 1.03 \times 100$

c) $0.415 \times 1,000 = \square$

f) $30.44 = \square \times 10$

5 Complete the diagrams.



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

$1.4 \times 10 \times 10 \times 10 \quad \bigcirc \quad 1.4 \times 1,000$

$1.4 \times 10 \times 100 \quad \bigcirc \quad 1.4 \times 1,000$

$1.4 \times 10 \times 10 \quad \bigcirc \quad 1.4 \times 1,000$

$1.4 \times 10 \times 2 \quad \bigcirc \quad 1.4 \times 100$

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.



$0.002 \quad \square \quad \square \quad \square = 2,000$

How many ways is it possible to complete this calculation?

Talk about it with a partner.

