

Multiply by 10, 100 and 1,000



1 Complete the calculations and sentences.

Use counters to help you.

Th	H	T	O	•	Tth	Hth
			●	●	●	

a) $2.3 \times 10 =$

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

b) $2.3 \times 100 =$

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

c) $2.3 \times 1,000 =$

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

2 Complete the diagram.



3

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

4.4×1

Th	H	T	O	•	Tth	Hth
				●		

4.4×10

Th	H	T	O	•	Tth	Hth
				●		

4.4×100

Th	H	T	O	•	Tth	Hth
				●		

$4.4 \times 1,000$

Th	H	T	O	•	Tth	Hth
				●		

b) Complete the calculations.

$4.4 \times 1 =$

$4.4 \times 10 =$

$4.4 \times 100 =$

$4.4 \times 1,000 =$

What do you notice?



4 Complete the calculations.

a) $13.44 \times 10 =$

e) $5.5 \times$ $= 5,500$



b) $41.4 \times 100 =$

f) $= 1.03 \times 100$

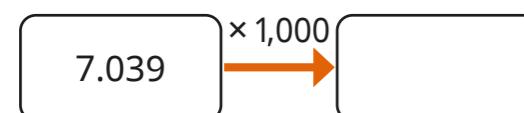
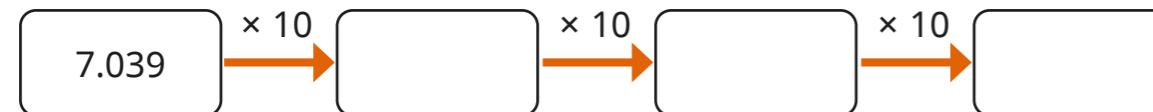
c) $0.415 \times 1,000 =$

g) $30.44 =$ $\times 10$

d) $3.06 \times 100 =$

h) $504 = 100 \times$

5 Complete the diagrams.



What do you notice? Why does this happen?

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

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

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

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

$1.4 \times 10 \times 2$ 1.4×100



7 Kim is working out 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.

$\times 1$ $\times 10$ $\times 100$ $\times 1,000$

0.002 \times \times $= 2,000$

How many different ways can this calculation be completed, using these cards?

Talk about it with a partner.

