a) Draw counters on the place value charts to represent each calculation.
$4.4 \times 1$

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

$4.4 \times 10$

| Th | H | T | O | Oth | Hth |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

$4.4 \times 100$

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

$4.4 \times 1,000$

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

b) Complete the calculations.


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


What do you notice? Why does this happen?
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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


7 Kim is calculating $14.3 \times 200$
She writes this as her answer.

$$
14.3 \times 200=28.600
$$

Explain Kim's mistake.
$\qquad$
$\qquad$

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.
a) Draw counters to represent the calculations.
$123 \div 1$

| H | T | O | Tth | Hth | Thth |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

$123 \div 10$

| $H$ | T | O | Tth | Hth | Thth |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |

$123 \div 100$

| H | T | O | Tth | Hth | Thth |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

$123 \div 1,000$

| $H$ | T | 0 | Tth | Hth | Thth |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

b) Complete the calculations.

What do you notice?


Complete the calculations and sentences.
Use place value counters to help you.

| Th | $H$ | $T$ | $O$ | Tth | Hth |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\bigcirc$ | $\bigcirc O$ |  |  |  |
|  |  | $O$ |  |  |  |

a) $140 \div 10=$ $\square$
When the number is divided by 10 the counters move $\square$ place to the right.
b) $140 \div 100=$ $\square$
When the number is divided by 100 the counters move

places to the right.
c) $140 \div 1,000=$ $\square$
When the number is divided by 1,000 the counters move $\square$ places to the right.
(2) Complete the diagram.

$\qquad$
(4) Complete the calculations.
a) $16 \div 10=$ $\square$
d) $332 \div$ $\square$
e) $2.4 \div 200=\square$
b) $43.4 \div 100=$ $\square$
f) $5.09=$ $\square$$\div 20$
c) $614 \div 1,000=$ $\square$
(5) Complete the diagrams.


What do you notice? Why does this happen?
$\qquad$
$\qquad$
$\qquad$
(8) Rosie is solving the calculation $3,600 \div 200$

Is Dexter correct? $\qquad$
Explain your reasoning.
$\qquad$
$\qquad$


Is Rosie correct? $\qquad$
Explain your reasoning.

