

Maths Challenge

Gemma says,



When you multiply by 100, you should add two zeros

Do you agree?
Explain your thinking.

Kim is calculating 14.3×200

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

Fill in the missing numbers in these calculations

$32.4 \times \square = 324$

$1.562 \times 1,000 = \square$

$\square \times 100 = 208$

$4.3 \times \square = 86$

Use the cards to complete the calculation.

You can use each card more than once.

$\times 1$	$\times 10$	$\times 100$	$\times 1,000$
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0.002 = 2,000

How many ways is it possible to complete this calculation?

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

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

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

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

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

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) $30.44 = \square \times 10$

Decide if each calculation is true or false. Explain your reasoning.

a) $0.5 \times 10 = 5$	b) $5.6 \times 100 = 56$	c) $0.65 \times 1000 = 650$
d) $3.05 \times 100 = 305$	e) $50.3 \times 10 = 5.03$	f) $0.005 \times 1000 = 50\,000$