

18.01.21      Fluent in five

1)  $50 \times 90 =$

2)  $784 \times 6 =$

3)  $(49+7) \div 7 =$

4)  $628 - 499 =$

5)  $34,371 + 32,588 =$

6)  $5,632 \times 24 =$

1)  $300 + 28 =$

2)  $742 - 193 =$

3)  $10\% \text{ of } 10 =$

4)  $123 \times 5 =$

5)  $64 \div 8$

WALT multiply by  
10,100 and 1000  
(Reasoning)

<https://vimeo.com/487198038>



Let's multiply 12.41 by 10, 100 and 1000

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Multiply these numbers by 10, 100 and 1000

1) 64.12

2) 4.1

3) 12.89

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

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

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

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

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

Kim is calculating  $14.3 \times 200$

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

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?

Talk about it with a partner.

Dora says,



When you multiply by 100, you should add two zeros.

Do you agree?

Explain your thinking.

Using the digit cards 0-9 create a number with up to 3 decimal places e.g. 3.451

Cover the number using counters on your Gattegno chart.

10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009

Explore what happens when you multiply your number by 10, then 100, then 1,000

What patterns do you notice?