# RECALL

A: Complete these missing numbers	B: Complete these missing numbers
1) 3.556 = 3 + 0.5 + 0.05 +	1) 14.938 = 10 + 4 + 0.9 + 0.03 +
2) 4.713 = 4 + + 0.01 + 0.003	2) 45.709 = 40 + 5 + + 0.009
3) 6.982 = 6 + 0.9 + + 0.002	3) 26.049 = 0.4 + + 6 + 20
4) 7 + + 0.02 + 0.009 = 7.529	4) 10 + 9 + + 0.21 + 0.004 = 19.914
5) 8 + = 8.006	5) 21.608 = 20 + 1 + 0.5 + + 0.016
6) 1 + 0.3 + = 1.302	6) 37.059 = 30 + 6 + 0.3 + + 0.03 + 0.009

#### RECALL ANSWERS

A: Complete these missing numbers	B: Complete these missing numbers
1) 3.556 = 3 + 0.5 + 0.05 + 0.006	1) 14.938 = 10 + 4 + 0.9 + 0.03 + 0.008
2) 4.713 = 4 + 0.7 + 0.01 + 0.003	2) 45.709 = 40 + 5 + <mark>0.7</mark> + 0.009
3) 6.982 = 6 + 0.9 + <mark>0.08</mark> + 0.002	3) 26.049 = 0.04 + 0.009 + 6 + 20
4) 7 + 0.5 + 0.02 + 0.009 = 7.529	4) 10 + 9 + 0.7 + 0.21 + 0.004 = 19.914
5) 8 + 0.006 = 8.006	5) 21.608 = 20 + 1 + 0.5 + 0.092 + 0.016
6) 1 + 0.3 + <mark>0.002</mark> = 1.302	6) 37.059 = 30 + 6 + 0.3 + 0.72 + 0.03 + 0.009



#### LEARNING HABITS?



## GUIDED PRACTICE

 Each plate has a mass of 0.3 kg.

What is the mass of the 10 plates altogether?

2) Each glass has a mass of 0.25 kg.

What is the total mass of all the glasses?





How many different ways can you show these calculations?

# INTELLIGENT PRACTICE





J

Complete these calculations

1) 5.2 × 10 =

2) 5.2 × 100 =

3) 5.2 × 1,000 =

Complete these calculations 1) 0.12 × 10 = 2) 1.02 × 100 =

3) 10.02 × 1,000 =

Complete these calculations

1) 50.2 × 10 =

2) 5.02 × 100 =

3) 0.502 x 1,000 =



## INTELLIGENT PRACTICE







Complete these calculations	Complete these calculations	Complete these calculations
1) 5.2 × 10 = <mark>52</mark>	1) 0.12 × 10 = 1.2	1) 50.2 × 10 = 502
2) 5.2 x 100 = <mark>520</mark>	2) 1.02 × 100 = 102	2) 5.02 × 100 = 502
3) 5.2 × 1,000 = <mark>5200</mark>	3) 10.02 × 1,000 = 10020	3) 0.502 × 1,000 = 502



1) Complete the calculations and sentences.



a) 2.3 x 10 = When the number is multiplied by 10 the counters move \_\_\_ place to the left.

b) 2.3  $\times$  100 = When the number is multiplied by 100 the counters move \_\_\_ places to the left.

c) 2.3 x 1000 = When the number is multiplied by 1000 the counters move \_\_\_ places to the left.



### DIVE DEEPER 1 ANSWERS

1) Complete the calculations and sentences.



a) 2.3 x 10 = 23 When the number is multiplied by 10 the counters move 1 place to the left.

b) 2.3  $\times$  100 = 230 When the number is multiplied by 100 the counters move 2 places to the left.

c) 2.3  $\times$  1000 = 2300 When the number is multiplied by 1000 the counters move 3 places to the left.





Explain Kim's mistake.

#### **DIVE DEEPER 2 ANSWERS**



1.4 × 10 × 2 < 1.4 × 100

6) Kim is calculating  $14.3 \times 200$ 

She write this as her answer.  $14.3 \times 200 = 28.600$ 

Kim has only multiplied 14.3 by 2 but not then multiplied the answer by 100

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?

Complete each calculation.

b) 0.004 × 🛆 = 🛧 × 0.04

How many different solutions can you find?

An artist uses tiles to make a mosaic border along a wall. The height of the mosaic is 20 tiles and the width is 500 tiles.



## SELF-ASSESSMENT

- Some will even be able think how multiplying by 10, 100 and 1,000 links to multiples of 10 eg. X 20, x 200 or x 2,000
- Some will be able explain how multiplying by 10, 100 and 1,000
- Most will be able to explain a rule to help multiply decimals by 10, 100 and 1000
- All will be able to use a place value chart to help multiply decimals by 10, 100 and 1000