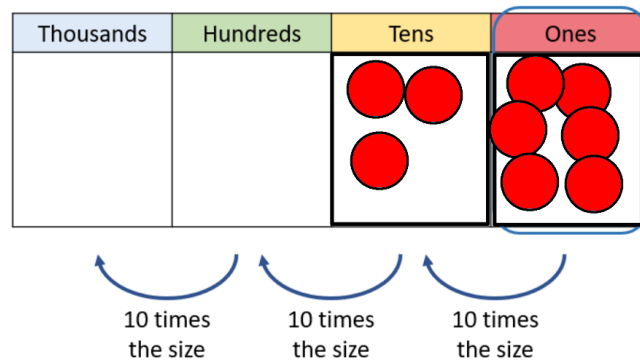


## Homework to be returned by Wednesday 14<sup>th</sup> December

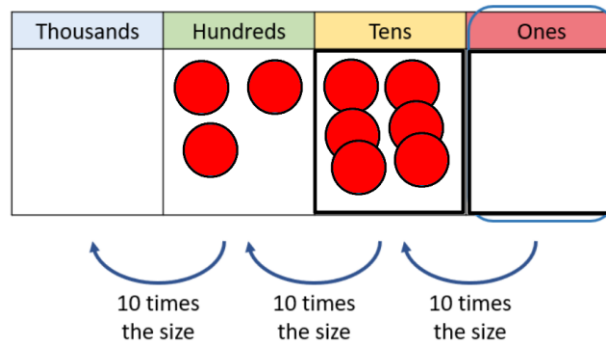
Friday 9<sup>th</sup> December

Target: To multiply by 10 and 100

This week we have been learning to multiply by 10 and 100. When we multiply by 10 the digits jump one place to the left as they become 10 times bigger. When we multiply by 100 the digits jump two places to the left as they become 100 times bigger.



So, to solve  $36 \times 10 =$  you will make 36 as above and then move the counters one column to the left so the 3 tens become 3 hundreds and 6 ones become 6 tens. The new place value grid will look like this:



$$36 \times 10 = 360$$

\_\_\_\_\_ is ten times the size of \_\_\_\_\_.

As there are no counters in the ones, we fill the place with a 0

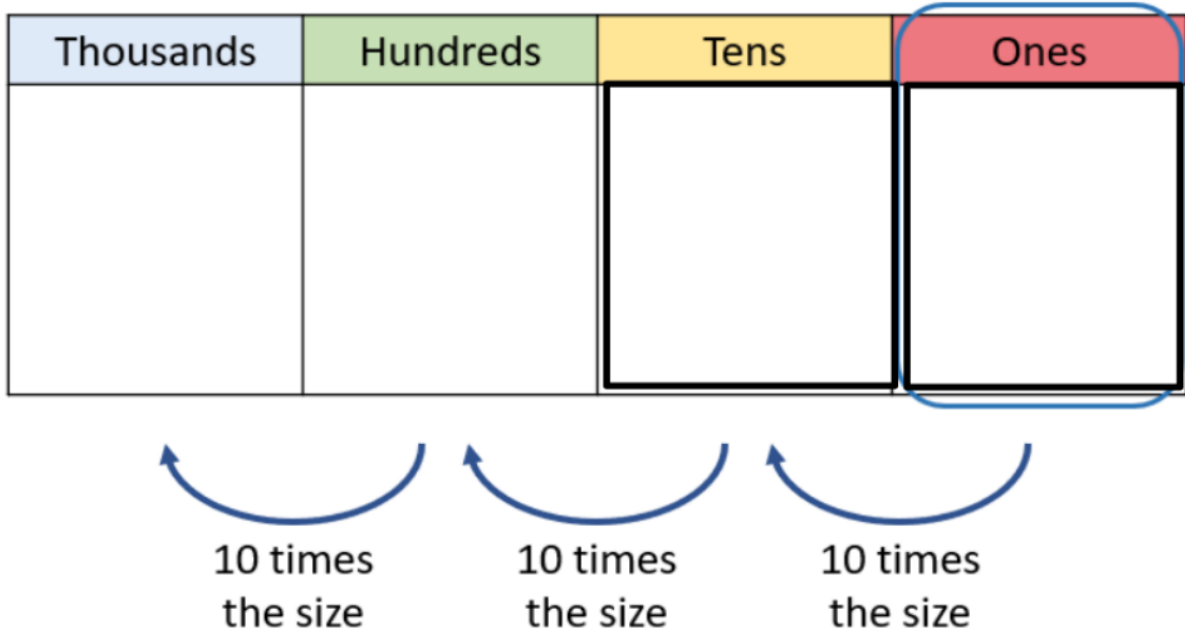
360 is ten times the size of 36.

## Homework to be returned by Wednesday 14<sup>th</sup> December

Choose a challenge that you would like to complete:

### Challenge 1

Use counters on the place value chart to help you to complete these questions or draw a place value chart out and draw the counters pictorially.



- 1)  $3 \times 10 =$
- 2)  $30 \times 10 =$
- 3)  $3 \times 100 =$

- 4)  $5 \times 10 =$
- 5)  $50 \times 10 =$
- 6)  $5 \times 100 =$

- 7)  $10 \times 2 =$
- 8)  $10 \times 20 =$
- 9)  $100 \times 2 =$

10) What do you notice about each of these set of calculations?

## Homework to be returned by Wednesday 14<sup>th</sup> December

### Challenge 2

True or false? Use examples and visual representations to explain your understanding.



Multiplying by 100 is the same as multiplying by 10 and multiplying by 10 again.

### Challenge 3

Complete the calculations.

a)  $32 \times 100 =$

b)  $29 \times 100 =$

c)  $100 \times 72 =$

d)  $5 \times 7 \times 100 =$

e)   $\times 100 = 6,500$

f)  $100 \times$    $= 3,000$

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

a)  $45 \times 100$    $45 \times 10$

c)  $100 \times 27$    $26 \times 100$

b)  $36 \times 100$    $100 \times 36$

d)  $30 \times 10$    $3 \times 100$