Summer Week 4 - Maths Lesson 5

Can I use the SMILE method to divide?

Fast five (answers on next page)

1) $65 \times 10 =$

2) 60 x 80 =

3) 4761 + 5412 =

4) 6008 - 2139 =

5) 751 x 6 =

Fast Five Answers

1) $65 \times 10 = 650$ 2) 60 x 80 = **4800** 3) 4761 + 5412 = 10173

4) 6008 - 2139 = **3869**

5) 751 x 6 = **4506**

Today we are going to use the SMILE method for division to help us divide larger numbers.



When using the smile method we only look at the digits greater than 0. This makes it easier for us to divide the larger numbers.

$120 \div 2 = 12 \div 2 = 6$

We divide the numbers greater than 0 and then remember to add on the same number of 0's in the question to the answer.

 $120 \div 2 = 60$

Because 120 is 10x bigger than 12 (which is what we divided by 2) we therefore need to make the answer 10x bigger.

12 ÷ 2 = 6

Let's try another one...

$210 \div 30 =$ 21 ÷ 3 = 7

Because there are two 0s in the question and we made both numbers 10x smaller to divide we don't need to make the answer 10x bigger (this looks like we are adding a zero on the end).

 $21 \div 3 = 7$

 $210 \div 30 = 7$

Let's try another one...

$2500 \div 50 =$ 25 ÷ 5 = 5

Because 2500 is 100x bigger than 25 and 50 is 10x bigger than 5, we therefore need to make the answer 10x bigger.

✓ 25 ÷ 5 = 5

<u>2500 ÷ 50 = 50</u>

Your turn to have a go! The answer is on the next slide.





We make 1600 100x smaller and 40 10x smaller so it is easier to divide the numbers. Then we make the answer 10x bigger.

 $1600 \div 40 = 40$

 $16 \div 4 = 4$

Your activities:

Choose 1 challenge to do today.

Red - dividing multiples of 10 by 2, 5, 3 and 4 using the smile method

Yellow - dividing multiples of 10 and 100 by multiples of 10 and 100 using the smile method.

Green - dividing multiples of 10, 100 and 1000 by multiples of 10, 100 and 1000 using the smile method.