Welcome to your free sample of PlanBee's Short Division scheme of work!

This is Lesson 2 in a series of 5 lessons. It teaches children how to use the 'bus stop' method of short division.



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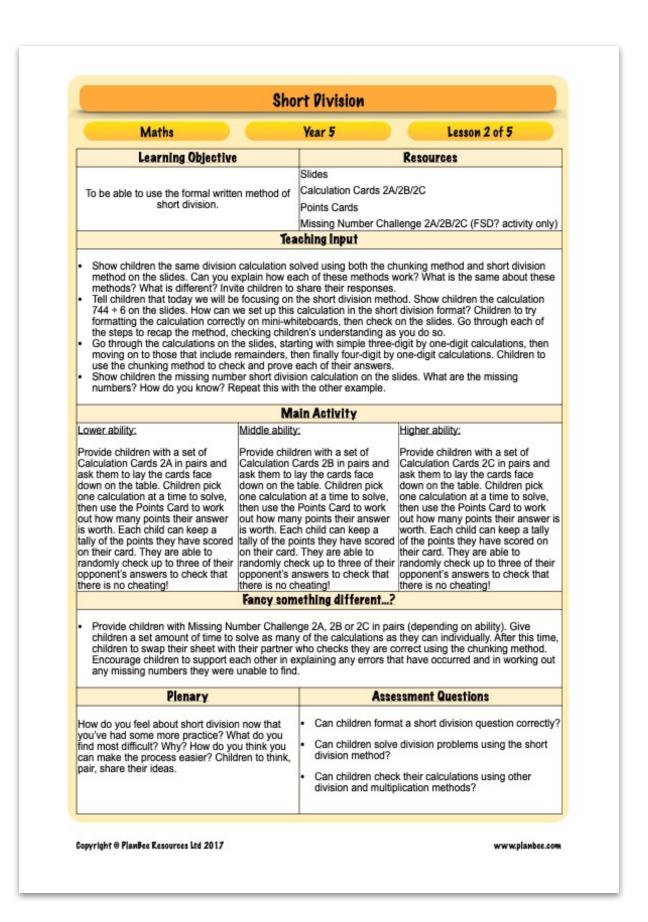
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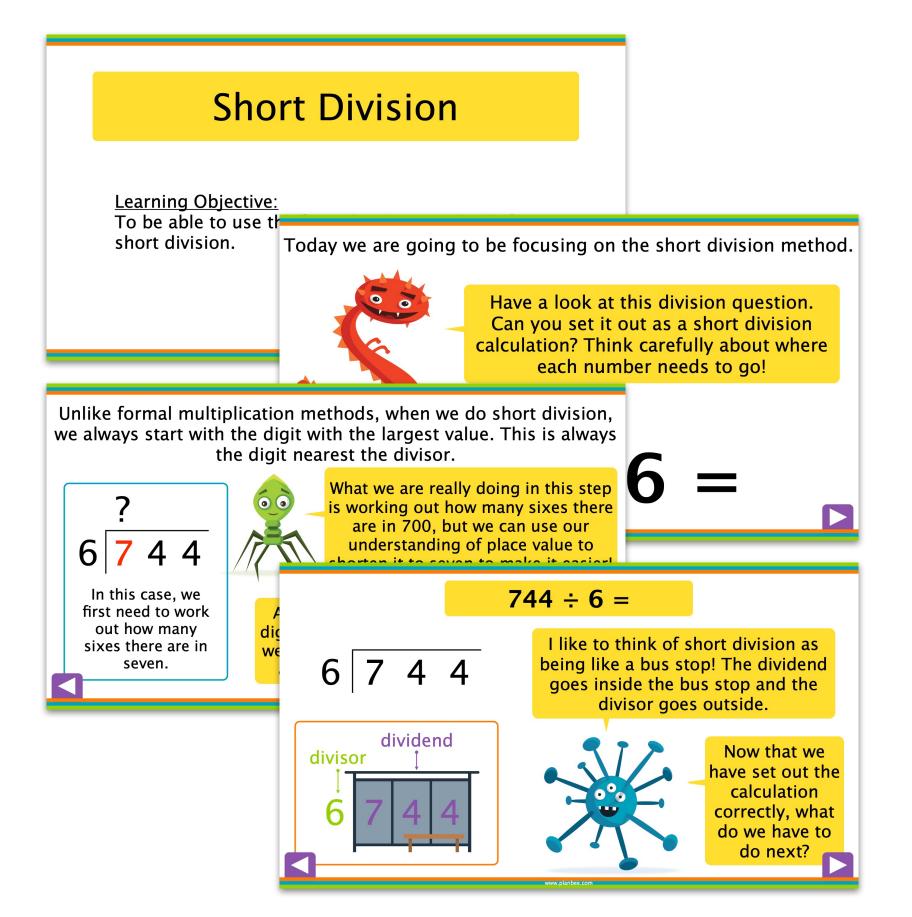
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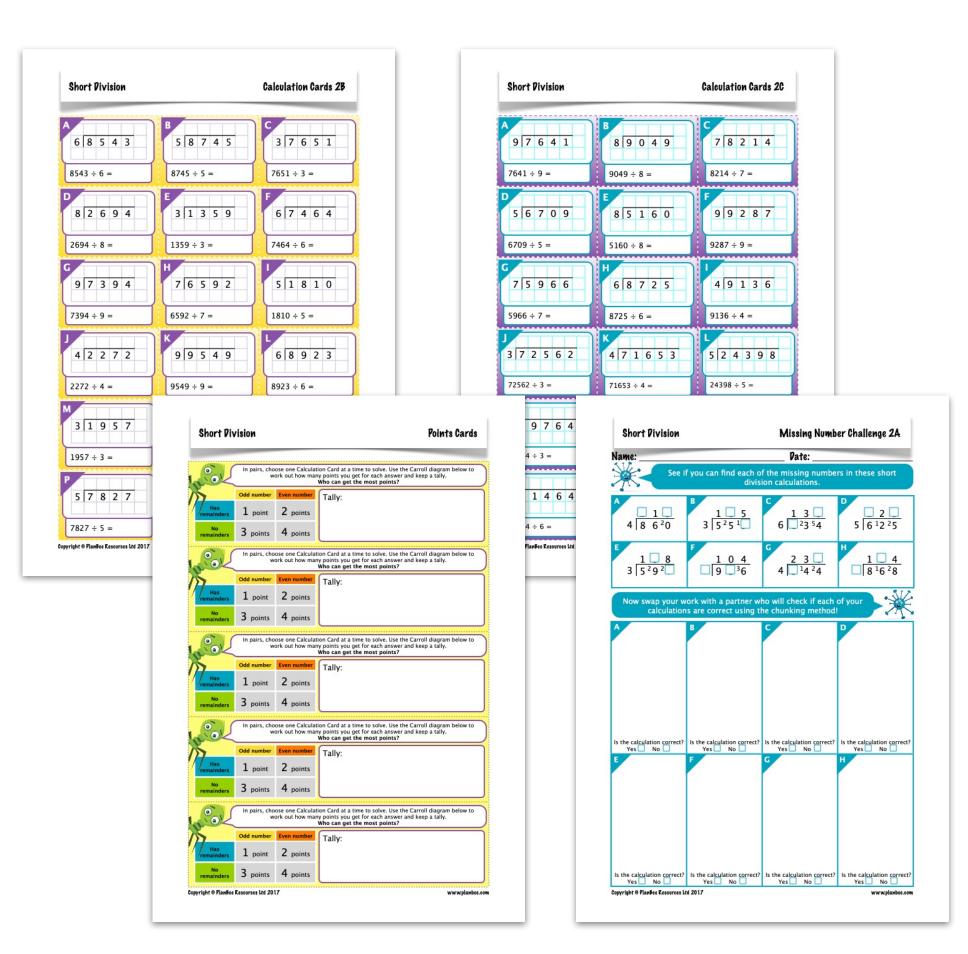
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Like all PlanBee lessons, this lesson pack contains a detailed lesson plan, slideshow presentation and a range of printable resources:







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Scroll through the next slides for a preview of the slideshow presentation for this lesson...

Open in Adobe Reader, then go to View > Full Screen Mode to view as a slideshow



Short Division

Learning Objective:

To be able to use the formal written method of short division.



$672 \div 4 = 168$

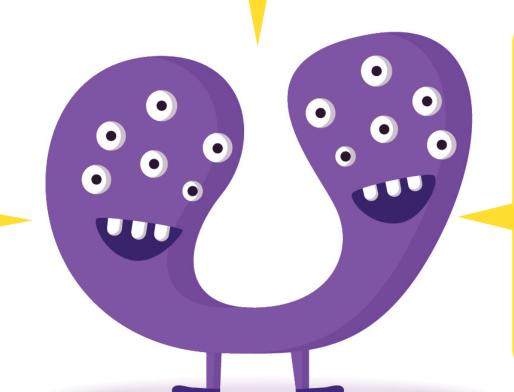
Chunking method

$$120 + 40 + 8 = 168$$

Short division method

How do these two division methods work?

What is the same about them?



What is different about them?

Today we are going to be focusing on the short division method.



Have a look at this division question.

Can you set it out as a short division calculation? Think carefully about where each number needs to go!

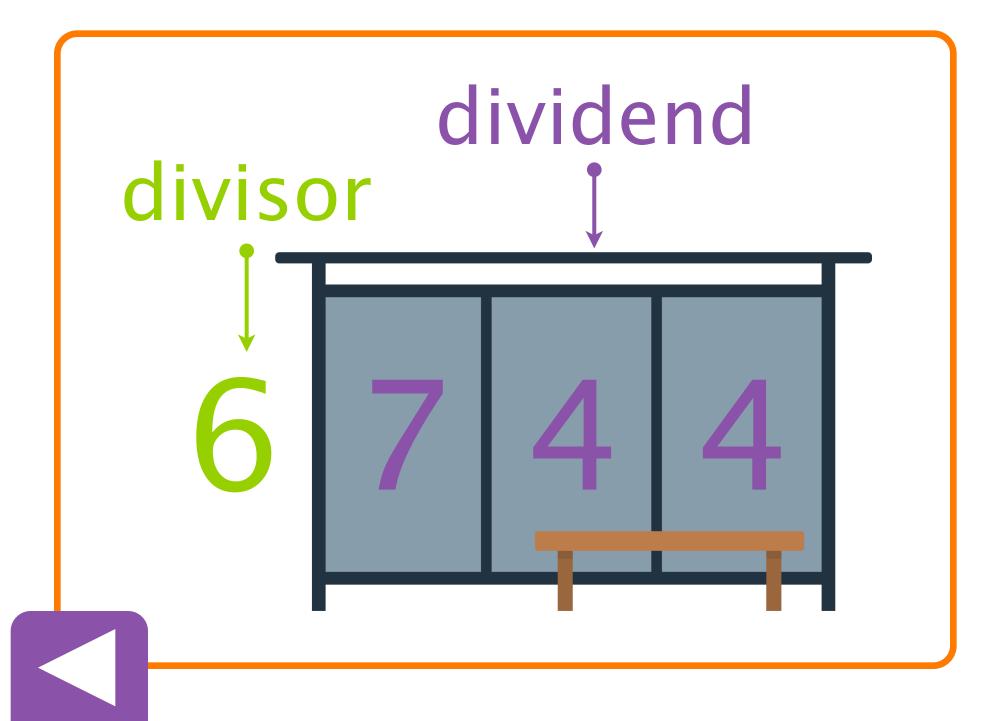
744 - 6 =

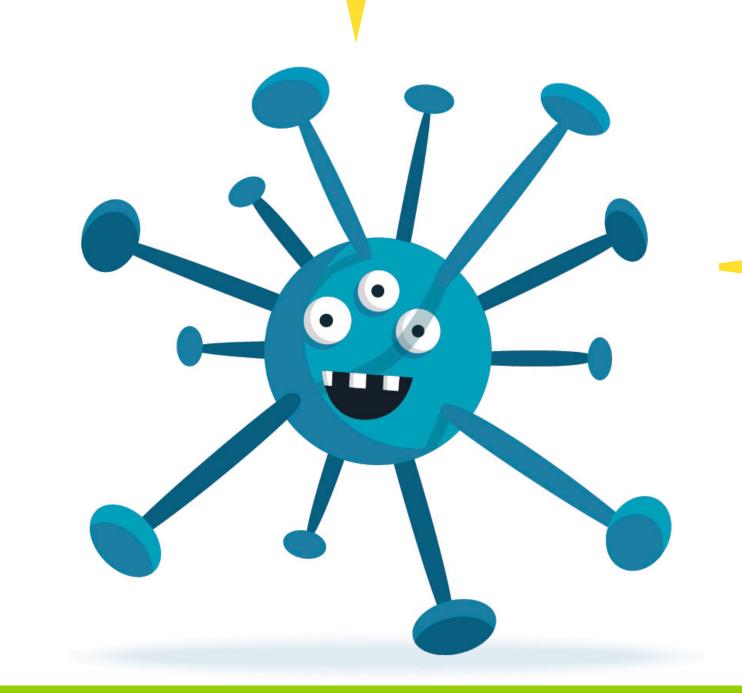


$744 \div 6 =$

6 7 4 4

I like to think of short division as being like a bus stop! The dividend goes inside the bus stop and the divisor goes outside.





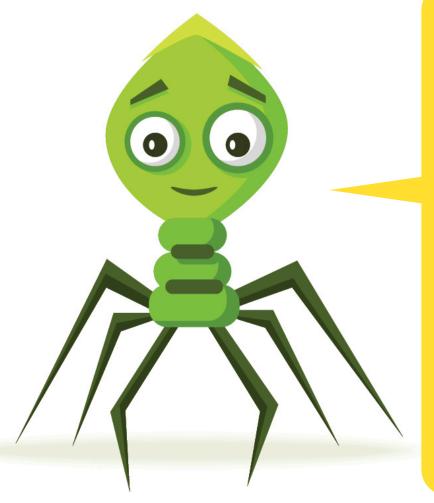
Now that we have set out the calculation correctly, what do we have to do next?

Unlike formal multiplication methods, when we do short division, we always start with the digit with the largest value. This is always the digit nearest the divisor.

?

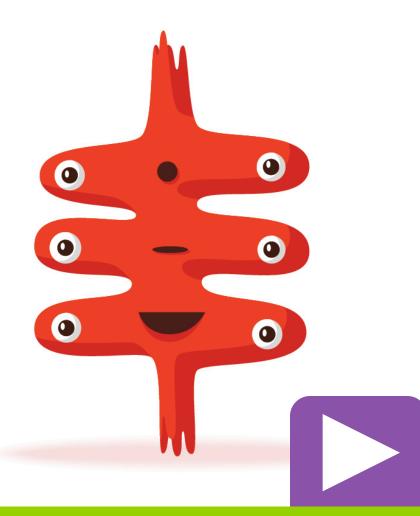
6 7 4 4

In this case, we first need to work out how many sixes there are in seven.



What we are really doing in this step is working out how many sixes there are in 700, but we can use our understanding of place value to shorten it to seven to make it easier!

As long as we keep all the digits in the correct columns, we can look just at the digits and not the actual value.



1

6 7 4 4

There is one lot of six in seven, so we record this above the seven...



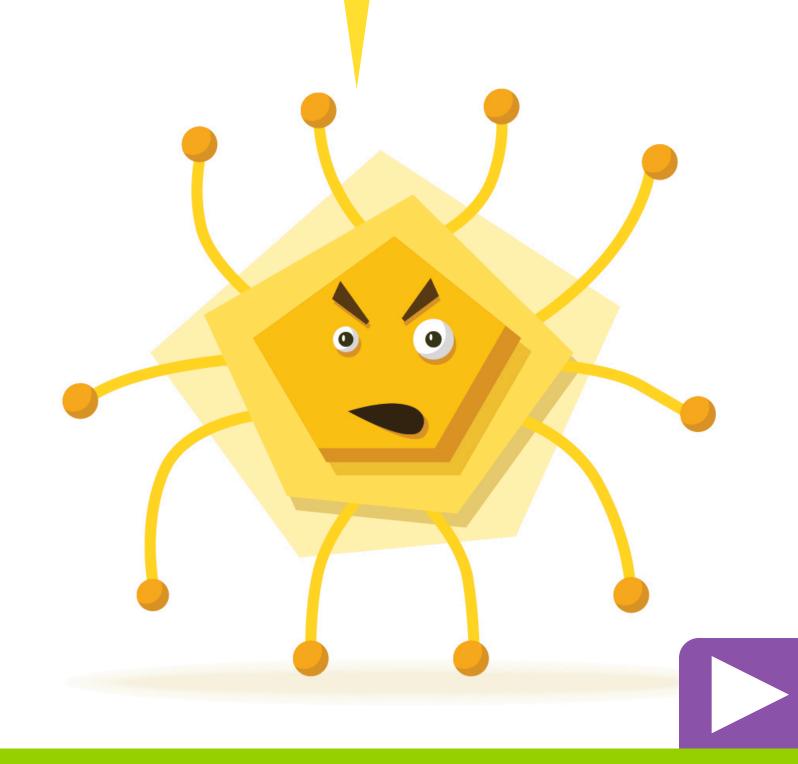
What we are really showing here is that there are 100 sixes in 700!

1

6 7 14 4

...but we have one left over so we exchange this for the next part of the calculation.

What do you think our next step will need to be?



1 ?

6 7 14 4

Next, we need to look at how many sixes there are in 14.

1 2

6 7 14 4

There are 2 sixes in 14, so we record this above the 14...

1 2

6 7 14 24

...but we also have two remaining so we will exchange it to use in the next part of the calculation.



What do we need to do next?

Finally, we need to work out how many sixes there are in 24.

There are exactly 4 sixes in 24, so we record this above the line.

We don't have any remainders so this makes our answer 124!







I find short division quite tricky. How confident do you feel with this method?









$$845 \div 5 =$$



Let's do this one together. What do we need to do first?

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SHORTDIVISION50

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