

Subject	Work at home ideas						
Maths-	Monday- LI: Can I divide 3-Digits by 1-Digit?						
Times Table Rock Stars							
Mental Maths practice- <a href="https://www.topmarks.co.uk/maths-games/daily10">https://www.to pmarks.co.uk/ maths- games/daily10</a>	<div><div>Teach:</div><div>Annie is dividing 609 by 3 using place value counters.</div><div><table><tr><th>Hundreds</th><th>Tens</th><th>Ones</th></tr><tr><td><div>100100</div><div>100100</div><div>100100</div></td><td></td><td><div>111</div><div>111</div><div>111</div></td></tr></table><div><div>609 ÷ 3 = 203</div><div><div>600 ÷ 3 = 200</div><div>0 ÷ 3 = 0</div><div>9 ÷ 3 = 3</div></div></div><div><div>3</div><div>609</div><div>203</div></div><div>Do we need to partition 609 into three parts or could it just be partitioned into two parts?</div></div></div>	Hundreds	Tens	Ones	<div>100100</div> <div>100100</div> <div>100100</div>		<div>111</div> <div>111</div> <div>111</div>
Hundreds	Tens	Ones					
<div>100100</div> <div>100100</div> <div>100100</div>		<div>111</div> <div>111</div> <div>111</div>					
Hit the button- <a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.to pmarks.co.uk/ maths- games/hit-the- button</a>	<div><div>Teach</div><div>Draw the place value counters to divide five hundred and sixty eight by four.</div><div><table><tr><th>H</th><th>T</th><th>O</th></tr><tr><td><div>100100</div><div>100100</div><div>100</div></td><td><div>101010</div><div>101010</div><div>1010</div><div>10101010</div><div>10101010</div></td><td><div>11</div><div>11</div><div>11</div><div>11</div></td></tr></table><div><div>142</div><div>568</div></div></div></div>	H	T	O	<div>100100</div> <div>100100</div> <div>100</div>	<div>101010</div> <div>101010</div> <div>1010</div> <div>10101010</div> <div>10101010</div>	<div>11</div> <div>11</div> <div>11</div> <div>11</div>
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**Practice:**  $637 \div 3 =$

H	T	O


$$\boxed{\phantom{00}} \div \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$600 \div 3 = \boxed{\phantom{00}}$$

$$7 \div 3 = \boxed{\phantom{00}}$$

$$30 \div 3 = \boxed{\phantom{00}}$$

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**Challenge Q:**

**Apply:**

Which is the odd one out? Explain how you know.

A.  $212 \div 4$

B.  $486 \div 9$

C.  $378 \div 7$

D.  $324 \div 6$

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Tuesday- LI: Can I divide 3-Digits by 1-Digit?

## Teach:

Divide 3 Digits by 1 Digit

Diving



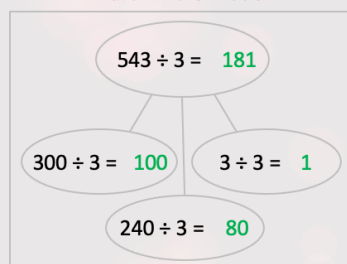
Use place value counters to carry out the calculation and complete the table.

$$543 \div 3 = 181$$

Place Value Counters



Part-Whole Model

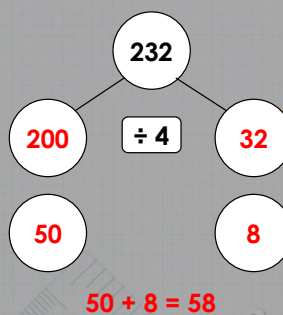


## Teach

True or false?

$$232 \div 4 = 51$$

Partition the number to support your calculations.

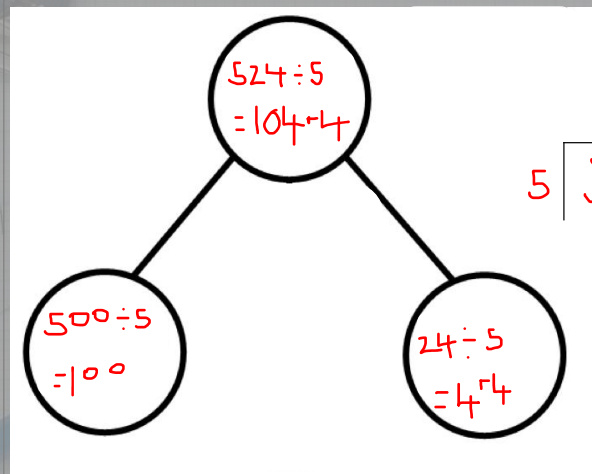


False  
because the  
answer is 58,  
not 51.

Teach:

True or false?

$$524 \div 5 = 104$$



$$\begin{array}{r} 104 \text{ r } 4 \\ 5 \overline{) 524} \\ \underline{5} \phantom{00} \\ 0 \phantom{00} \\ \underline{0} \phantom{00} \\ 0 \phantom{00} \\ \underline{0} \phantom{00} \\ 4 \phantom{00} \\ \underline{4} \phantom{00} \\ 0 \end{array}$$

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Practice: Complete these calculations using the bus stop method.

a)  $684 \div 5 =$

b)  $977 \div 6 =$

c)  $739 \div 8 =$

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Challenge Q:



Embed:

685 ÷ 3

833 ÷ 4

917 ÷ 6

Which calculation's answer is closest to 200? Prove it!

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Wednesday- **LI: Can I multiply and divide by 9?**

Teach:

1 x 9 =

2 x 9 =

3 x 9 =

4 x 9 =

5 x 9 =

6 x 9 =

7 x 9 =

8 x 9 =

9 x 9 =

10 x 9 =

11 x 9 =

12 x 9 =

What do you notice about these numbers?

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Watch this song to help to learn your 9 times table:

<https://www.youtube.com/watch?v=WiKqUNzuGXw>

Here is another trick which may help you remember the 9 times table:

<https://www.youtube.com/watch?v=jEleFV4oMp4>

Teach:

## Always, Sometimes, Never

All multiples of 9 have digits that have a sum of 9.

$$1 \times 9 = 9 \rightarrow 1 + 9 = 10 \rightarrow 1 + 0 = 1$$

$$5 \times 9 = 45 \rightarrow 4 + 5 = 9$$

$$11 \times 9 = 99 \rightarrow 9 + 9 = 18 \rightarrow 1 + 8 = 9$$

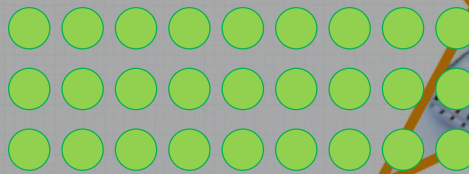
Always.

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Teach:

True or false?

The number sentences below match this array.



$$3 \times 9 = 26$$

$$26 \div 9 = 3$$

False;  $3 \times 9 = 27$  and  $27 \div 9 = 3$ .

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### Practice:

Complete these number sentences.

$$1 \times 9 = \square$$

$$\square \div 9 = 3$$

$$2 \times 9 = \square$$

$$\square \div 9 = 5$$

$$4 \times 9 = \square$$

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Challenge Q:

### Apply:

Can you complete the calculations using some of the symbols or numbers in the box?

$$\begin{array}{ccccc} \div & 9 & 100 & & \\ 10 & 900 & & = & \end{array}$$

$$\underline{\quad} \div \underline{\quad} = 9$$

$$90 = 900 \underline{\quad} 10$$

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Thursday- LI: Can I solve correspondence problems?

**Teach:**

## **What are correspondence problems?**

**Correspondence problems** involve finding the number of possible combinations for different groups of items. The combinations are every possible choice that could be made if you were to pick one item out of each group.

**Teach:**

An ice-cream van has 4 flavours of ice-cream and 2 choices of toppings.

Ice-cream flavour	Toppings
Vanilla <b>V</b>	Sauce <b>S</b>
Chocolate <b>C</b>	Flake <b>F</b>
Strawberry <b>S</b>	
Banana <b>B</b>	

How many different combinations of ice-cream and toppings can be made?

Complete the multiplication to represent the combinations.

4 × 2 = 8      There are 8 combinations.

What combinations are there? (Use a code to work out your answer)

VS  
VF  
CS  
CF  
SS  
SF  
BS  
BF



Teach:

3a. Pippa and Saif are looking at bugs in 2 bug hotels. There are a total of 32 different combinations of bugs.



Pippa

I think there are 12 bugs in hotel A and 3 bugs in hotel B.

I think there are 8 bugs in hotel A and 4 bugs in hotel B.



Saif

Who is correct? Prove it.

**Saif because  $8 \times 4 = 32$ .**

Teach:

5a. There are 100 legs in total. This is made up of dogs and spiders.



What combination of dogs and spiders could there be?

$$4 \times 5 = 20$$

$$8 \times 10 = 80$$

$$20 + 80 = 100$$

### Practice:

Here are the meal choices in the school canteen.

Starter	Main	Dessert
Soup	Pasta	Cake
Garlic Bread	Chicken	Ice-cream
	Beef	Fruit Salad
	Salad	

There are 2 choices of starter, 4 choices of main and 3 choices of dessert.

How many meal combinations can you find? Can you use a systematic approach?

### Challenge Q:

### Apply:

**6a. Debbie and Tom are in a pet shop buying fish from 2 tanks. There are a total of 60 different combinations of fish.**



Debbie

I think there are 12 fish in tank A and 5 fish in tank B.

I think there are 6 fish in tank A and 10 fish in tank B.



Tom

**Who is correct? Prove it.**