

X	1		3	4	5	6	7		9	10	11	
9		18						72				108

Write	the	next	three	mul	tiples	of 9.	
٩,	18,	27	, 3	6,		,	 _

A box of pencils holds 9
pencils. Steven wants 72
pencils. How many boxes will
he need to buy?

Sometimes, always, never...

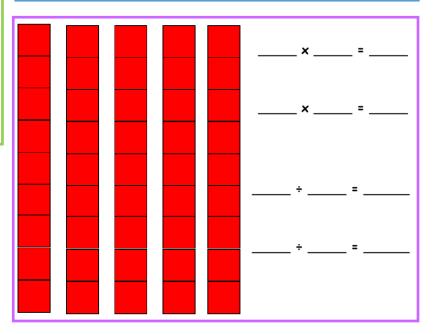
"When you multiply a number by 9, the answer will be an odd number."

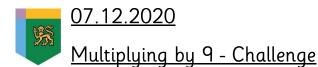
Explain your reasoning.

Create a word problem that requires	
you to use the 9 x table.	

Emily counts in multiples of 90. Circle the numbers she will say.

99 360 490 630 819 8,100





Fill in the missing numbers:

$$9 x = 36$$

I am thinking of two numbers.

The sum of the numbers is 17.

The product of the numbers is 72.

What are my secret numbers?

Sarah says "If a number is a multiple of 9, then it will also be a multiple of 3." Is Sarah correct?

Explain your reasoning.

Complete the sentences to describe the oranges:

There are ____ lots of 9

There are ____ nines.

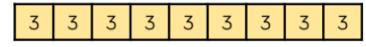
4 × ____ = ___



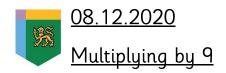
Create your own two secret numbers from the 9 times table and create clues for your partner.

There are ____ lots of ____.

There are ____ lots of ____.



What's the same about each question? What's different?



Complete the missing numbers.

9 ____ 27 ____ 54 ____

27 _____ 9 _____ - 18 _____

90 180 270 _____

x 9 = 45 9 x = 81

40 x 90 = 50 x 90 =

David says: "I'm not very confident with my 9's but I know my 10's."

Explain how David can use his knowledge of the 10 times table to help him solve his 9's.

Circle the multiples of 9.

54 108 18 24 9 67 72

True or False?

$$6 \times 9 = 9 \times 3 \times 2$$

$$9 \times 6 = 3 \times 9 + 9$$

Explain your answer.

Convince me **180** will be in this sequence:

450, 360, 270...

Use your knowledge of the 9 times table to complete the missing values.

$$1 \times 9 =$$

$$_{---} \times 1 = 9$$

$$1 \times 9 =$$
___ $\times 1 = 9$ $1 \times 9 \times$ ___ $= 90$

$$_{--}$$
 \times 9 = 90

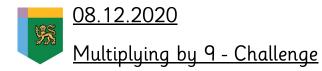
$$900 = 100 \times$$

$$__$$
 × 9 = 90 900 = 100 × $__$ 9 × 1 × 10 = $__$

$$9 \times _{--} = 900$$

$$4 \times 9 =$$

$$9 \times \underline{\hspace{1cm}} = 900 \qquad 4 \times 9 = \underline{\hspace{1cm}} \qquad 9 \times 1 \times \underline{\hspace{1cm}} = 900$$



Stan counts in multiples of 9 to 81. Sarah counts in multiples of 6 to 72.
What numbers will they both say?

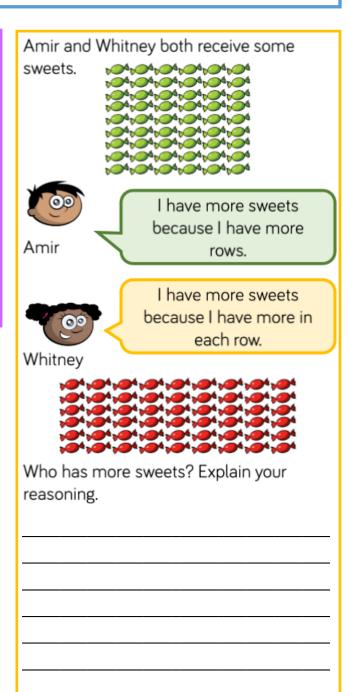
$9 \times 1 = 9$

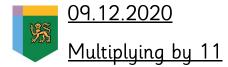
For each question below, explain how you can use the above fact to help you find the answer.

900 x 1	
9 ÷ 9	
9 x 2	
10 x 90	

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

$$90 = 900 _{--}10$$





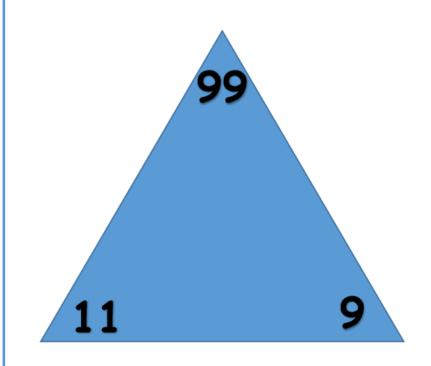
X	1		3	4	5	6	7		9	10	11	
11		22						88				132

Fill in the missing numbers:

Anna says: "I know my 11 times tables so I can do 11 x 40 without using a written method."

Explain how Anna can do this.

Find all the number facts in the triangle:



Journaling:

11	33	66
----	----	----

David says "All I need to do when multiplying by 11 is double the number I'm multiplying
by e.g. 8 x 11 = 88."
Is David correct? Explain your reasoning.

Henry is buying some new DVDS. He buys 5 DVDs at a cost of £11 each.

Draw a representation of this below before writing out the calculation and finding the answer.

, ags,	50.			,	•	2					
"Because	11	is o	odd,	multip	oles	of	11	will	also	be	odd."

Explain your reasoning

Create a selection of word problems that requires you to use the 11 x table on the next page.

Multiplying by 1 and 0

Complete the sentences.



There are ____ plates. There is ____ banana on each plate.

Altogether there are ____ bananas.

___×__=__

Use <, > or = to complete the following:

$$8 \div 1 \bigcirc 7 \div 1$$

$$6 \div 6 \bigcirc 5 \div 5$$

$$4 \div 4 \bigcirc 4 \div 1$$

Complete the calculation shown by the number pieces.



There are ____ ones.



Circle the incorrect calculations and write them correctly.

$$5 \times 0 = 50$$

$$19 \times 1 = 19$$

$$7 \times 0 = 7$$

$$1 \times 1 = 2$$

$$0 \times 35 = 0$$

$$0 \times 0 = 1$$

$$1 \times 8 = 9$$

Choose one calculation and create a drawing to show it.

Journaling:

$$_{--} = 1 \times 7$$

$$4 \times \underline{\hspace{1cm}} = 4 \qquad \underline{\hspace{1cm}} = 1 \times 7 \qquad 0 = \underline{\hspace{1cm}} \times 42$$

$$63 \times 1 =$$

$$_{---} \times 27 = 0$$

Mo says,



25 divided by 1 is equal to 1 divided by 25

Do you agree?

Explain your answer.

Which answer could be the odd one out? What makes it the odd one out?

$$3 + 0 =$$

$$3 - 0 =$$

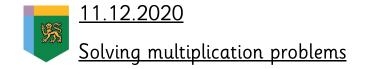
$$3 \times 0 =$$

Explain why the answer is different.

Draw a bar model for each question to help you work out the answer.

- Tommy baked 7 cookies and shared them equally between his 7 friends. How many cookies did each friend receive?
- There are 5 sweets. Children line up and take 5 sweets at a time. How many children have 5 sweets?

Complete your journaling on the next page.



Times Table Shift

The numbers in the five times table are: 5, 10, 15, 20, 25 ...

I could shift these numbers up by 3 and they would become: 8, 13, 18, 23, 28 ...

In this activity, the computer chooses a times table and shifts it.

Can you work out the table and the shift each time?

Levels 1 and 3 include tables up to 10.

Levels 2 and 4 include tables up to 20.

On levels 1 and 2, the numbers will always be the first five numbers in the times table. On levels 3 and 4, the numbers could be any five numbers from the shifted times table.

Journal your answers on the next page.



Can you explain how you worked out the table and shift each time, and why your method will always work?