

Timestable Challenge x1

Here is a multiplication grid.
Fill in the missing numbers.

$2 \times \square = 16$

$2 = \square \times 2$

$\square \times 2 = 6$

$2 \times \square = 0$

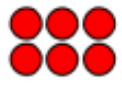
$14 = \square \times 2$

$\square \times 2 = 8$


$2 \times \square = 22$

$2 \times \square = 20$


$4 = \square \times 2$


 $3 \times \square = 6$

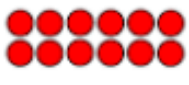
$\square \times 2 = 18$


 $\square = 2 \times 8$

$\square \times 2 = 10$


 $\square \times 5 = 10$

$\square \times 2 = 24$


 $12 = \square \times \square$

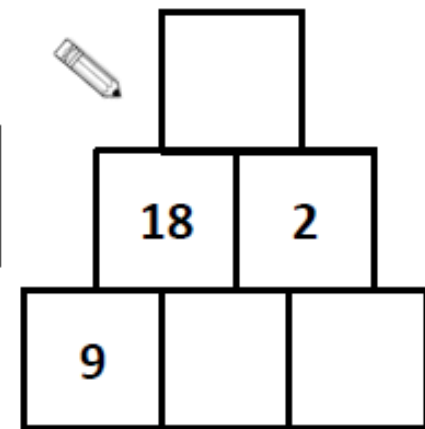
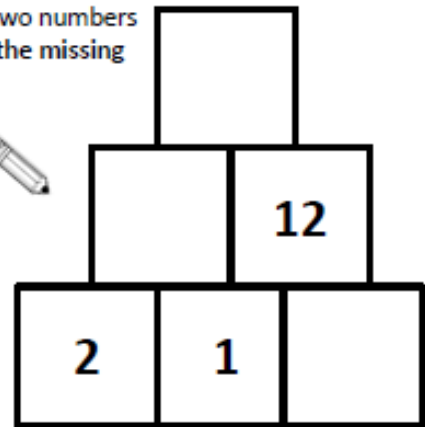
$12 = \square \times 2$

$2 \times \square = 9 \times \square$

x			11
2	12		
4		8	
	48		



Here is a number pyramid.
The number in a box is the product of the two numbers below it. Write the missing numbers:



Timestable Challenge x2



If you know that $2 \times 3 = 6$, you know that $2 \times 6 = \square$



If you know that $14 = 7 \times 2$, you know that $\square = 14 \times 2$



If you know that $10 = 5 \times 2$, you know that $\square = 10 \times 2$



If you know that 11×2 is equal to 22,
what is 22×2 equal to? \square

$2 \times 3 = 6$

$2 \times 6 =$

$2 \times 12 =$

$2 \times 24 =$

$16 \times 2 = 32$

$8 \times 2 =$

$4 \times 2 =$

$2 \times 2 =$

$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 2 \times \square$

How many 2s are there in 18? \square

$2 + 2 + 2 + 2 + 2 + 2 = 2 \times \square$

How many 2s are there in 24? \square

Mike says,

'Every multiple of 2 ends in 2'

Is Mike correct? YES/NO Explain how you know:

Timestable Challenge x 3

Here is a multiplication grid.
Fill in the missing numbers.

x	4	3	6
		9	
	8		12
5			



$3 \times \square = 9$

$3 = \square \times 3$

$\square \times 3 = 0$

$3 \times \square = 27$

$15 = \square \times 3$

$\square \times 3 = 24$

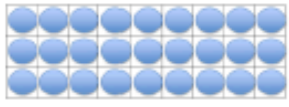
$3 \times \square = 36$

$3 \times \square = 30$

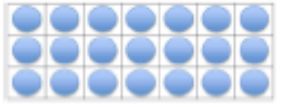
$12 = \square \times 3$

$3 \times \square = 6$


$\square \times 3 = 18$


 $\square = 9 \times 3$

$\square \times 3 = 33$


 $\square \times 7 = 21$

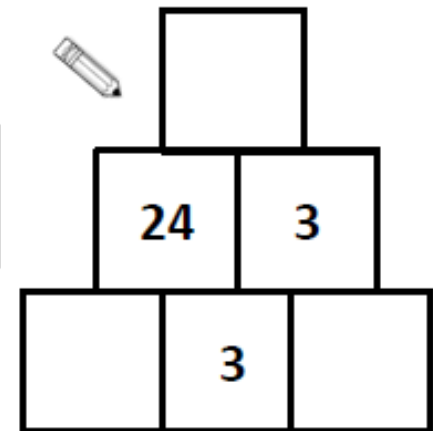
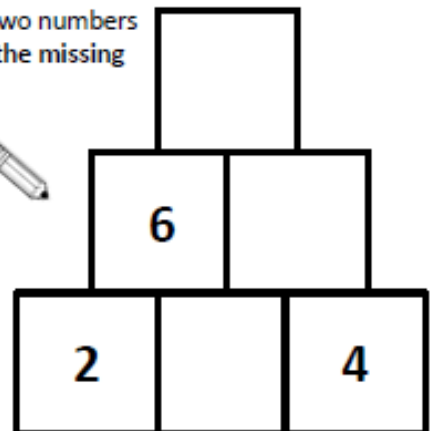
$\square \times 3 = 21$


 $15 = \square \times \square$

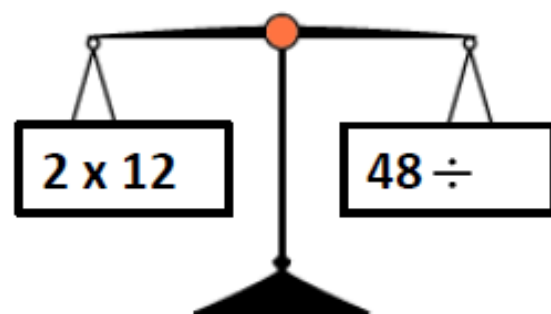
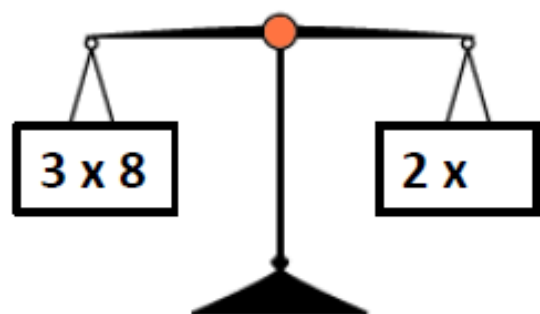
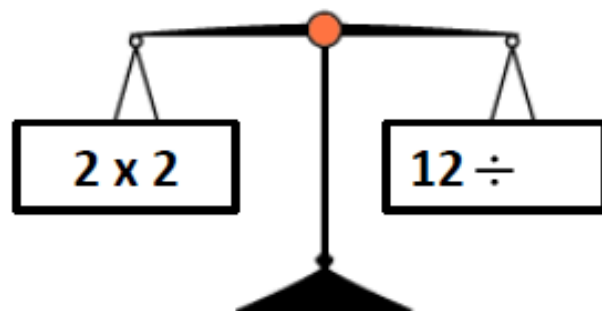
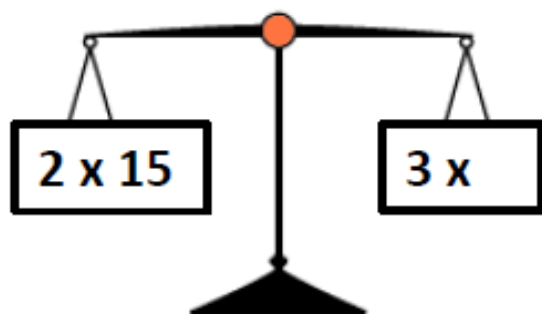
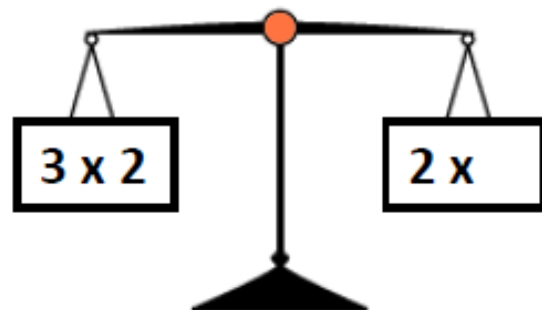
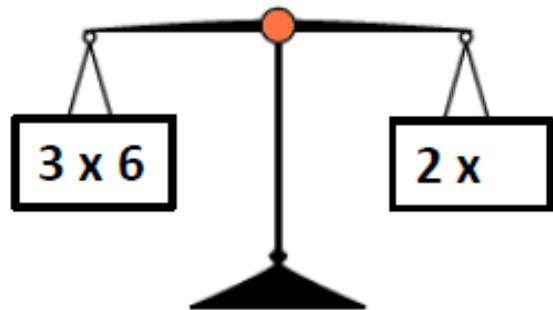
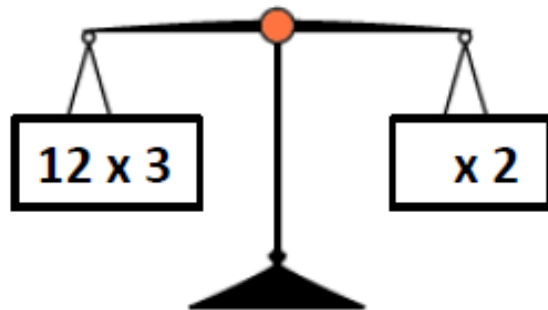
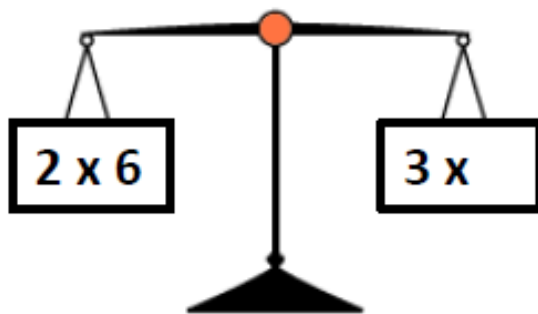
$6 = \square \times 3$

$3 \times \square = 8 \times \square$

Here is a number pyramid.
The number in a box is the product of the two numbers below it. Write the missing numbers:



Timestable Challenge x 4



Timestable Challenge x 4

$4 \times \square = 16$

$52 = \square \times 4$

$\square \div 4 = 50$

$\square \times 4 = 40$

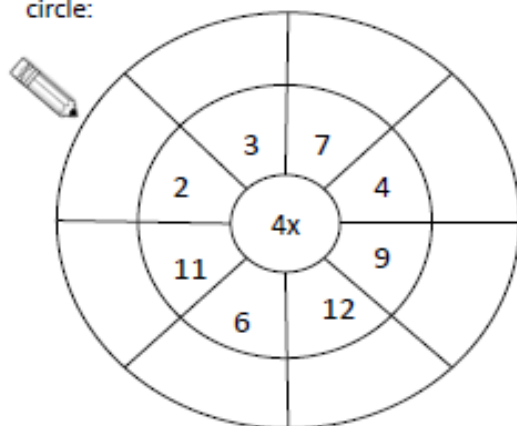
$\square \div 4 = 20$

$\square \times 4 = 80$

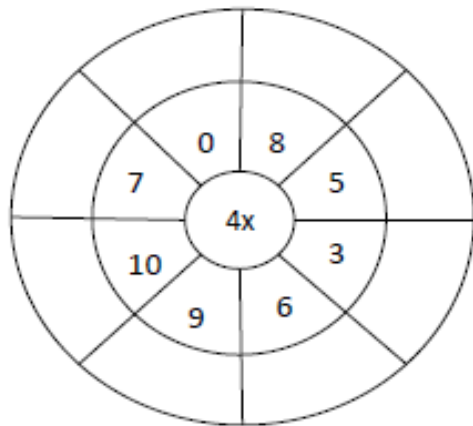
$48 = \square \times 4$

Here are some multiplication wheels. To complete them, multiply the number in the middle by numbers in the next circle:

$4 \times \square = 12$



$36 \div \square = 4$



$\square \times 4 = 8$

If you know that $10 \times 4 = 40$, you know that $20 \times 4 =$

$\square \times 4 = 24$

If you know that $8 \times 4 = 32$, you know that $8 \times 8 =$

$\square \div 4 = 7$

If you know that $12 \times 4 = 48$, you know that $12 \times 8 =$

$44 = \square \times 4$

If you know that $10 \times 4 = 40$, you know that $10 \times 8 =$

Timestable Challenge x 4

$$4 \times 7 = 28$$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

$$36 = 4 \times 9$$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

$$48 \div 4 = 12$$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

How many different factor pairs can you generate for the following number?

48

Here are some multiplication grids. Fill in the missing numbers:

x		7	
4			12
		56	
11	66		

x	8		3
			18
12		48	
	40		

Joseph says,

'Every multiple of 4 is also a multiple of 8'

Is Joseph correct? YES/NO **Explain** how you know:

Timestable Challenge x 5

$5 \times \square = 20$

$5 \times \square = 50$


$\square \times 5 = 0$

$45 = \square \times 5$

$5 \times 20 = \square$


$40 = \square \times 5$

$\square \times 5 = 35$

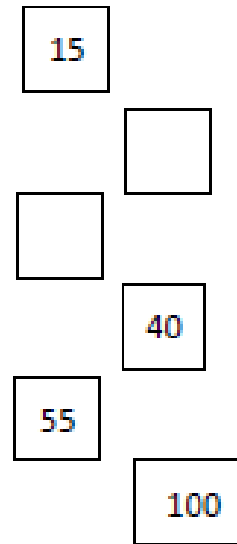
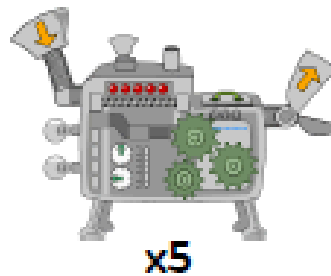
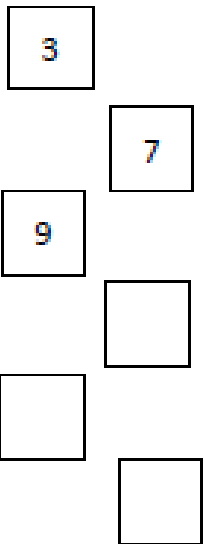

 $5 \times \square = 20$

$5 \times \square = 25$

$3 \times 50 = \square$


 $\square \div 5 = 2$

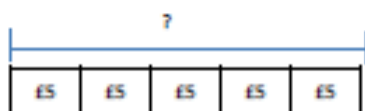
Below is a number function machine. Can you fill in the gaps, using your knowledge of the 5 times tables? The first one is done for you.



Timestable Challenge x5



Mrs Jones had 7 children. She wanted to give each one of them £5 to spend at the fair. How much money would Mrs Jones need?



If $5 \times 9 = 45$, what is 5×18 ? Explain how you worked it out:



What are five lots of 12?



What is $5 \times 5 \times 5$?



What are the next two numbers in this sequence:
120 115 110 105



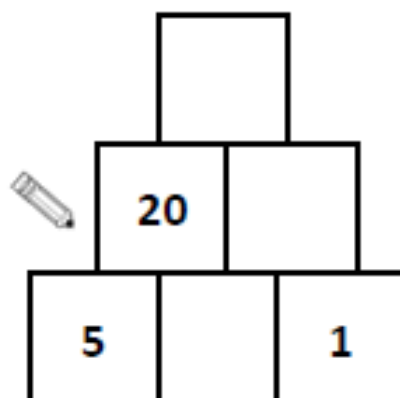
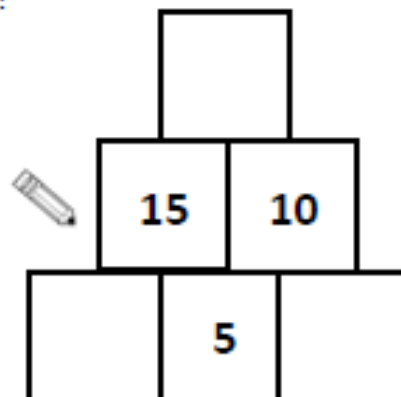
How many fives are there in 35?



How many fives are there in 65?

Here is a number pyramid.

The number in a box is the product of the two numbers below it. Write the missing numbers:



Timestable Challenge x6

$6 \times \square = 42$

$0 = \square \times 6$

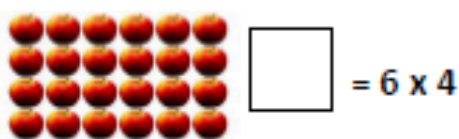
$\square \times 6 = 18$

$6 \times \square = 60$

$30 = \square \times 6$

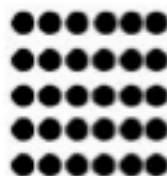
$\square \times 6 = 30$

$6 \times \square = 48$



$12 = \square \times 6$

What division fact does this array show:



$\square \times 6 = 54$

$\square \times 6 = 72$

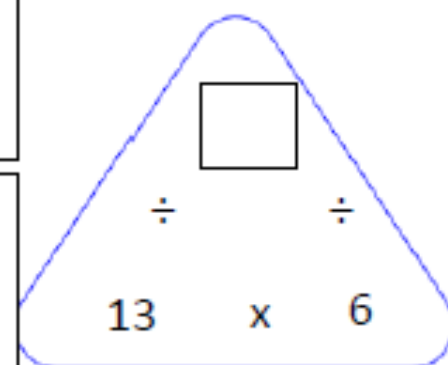
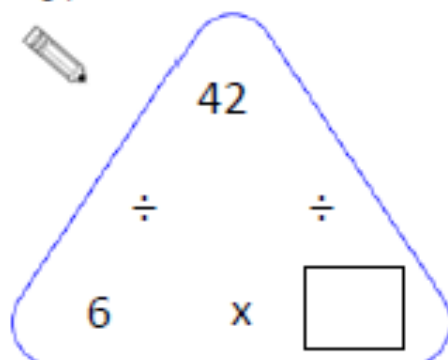
$\square \times 6 = 36$

$2 \times \square = 6 \times \square$

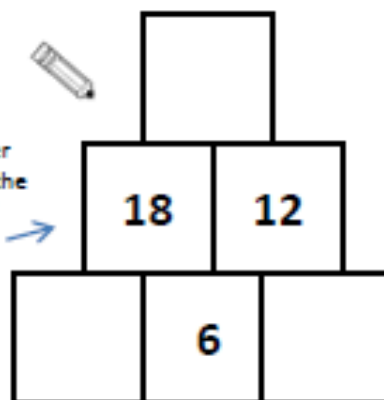
$6 \times \square = 4 \times \square$

$24 = \square \times 6$

Here are some multiplication triangles. Fill in the gaps



Here is a number pyramid. The number in a box is the product of the two numbers below it. Write the missing numbers:



Timestable Challenge x6



If you know that $2 \times 6 = 12$, you know that $2 \times 18 =$



If you know that $24 = 6 \times 4$, you know that $= 12 \times 4$

How many 6s are there in 54?



If you know that 10×6 is equal to 60, what is 20×6 equal to?

How many 6s are there in 24?

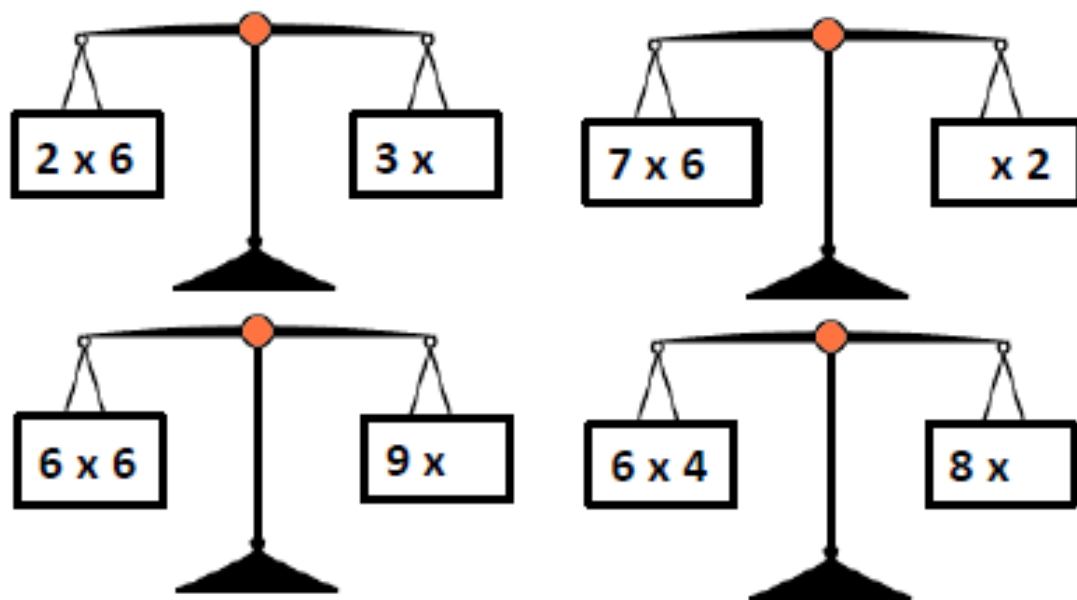
$6 + 6 + 6 + 6 + 6 + 6 + 6 = 6 \times$

$6 \times 2 = 12$

$6 \times 4 =$

$6 \times 8 =$

$6 \times 16 =$



Timestable Challenge x 7

$7 \times \square = 42$

$49 \div 7 = \square$

$\square \times 7 = 63$

$28 \div \square = 7$

$84 = \square \times 7$

$\square \div 7 = 3$

$7 \times \square = 56$

$63 \div 7 = \square$

$77 = \square \times 7$

$\square \div 7 = 5$

$28 = 7 \times 4$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

$56 \div 7 = 8$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

Circle all the multiples of 7 below:

13 21 32 35 58 63 74
84 96 103 140



Mrs Cooper had 67 pencils to sort into boxes of 7. How many boxes will she be able to fill?



What are seven lots of 16? Explain how you worked it out:

Here is a multiplication grid. Fill in the missing numbers.

x		5	
12			84
8	56		
		45	



Timetable Challenge x 7



True or false:

$$63 \div 7 = 64 \div 8$$

Explain how you know:

True or false:

$$7 \times 7 + 6 = 11 \times 5$$

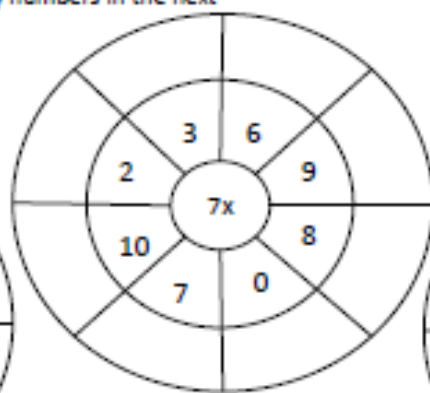
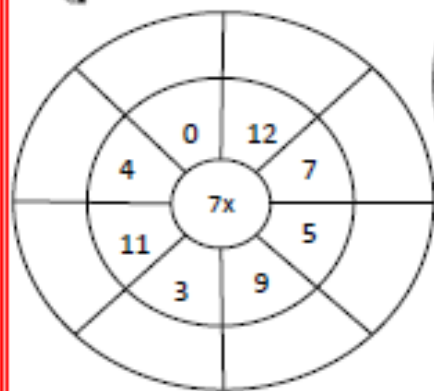
Explain how you know:

Paul says,

'If the digits in a two digit number can add up to be equal to 7, the number is a multiple of 7.'

Is Paul's statement always, sometimes or never correct? Explain how you know:

Here are some multiplication wheels. To complete them, multiply the number in the middle by numbers in the next circle:



Timestable Challenge x 8

$8 \times \square = 16$

$72 \div 8 = \square$

$8 \times \square = 88$

$24 \div 8 = \square$

$\square \times 8 = 48$

$56 \div \square = 8$

$32 = \square \times 8$

$\square \div 8 = 5$



What multiplication fact does this array show?

Here are some multiplication triangles. Fill in the gaps



What is 8×8 ?



What is the next number in this sequence:
32 40 48 56 64



How many eights are there in 24?



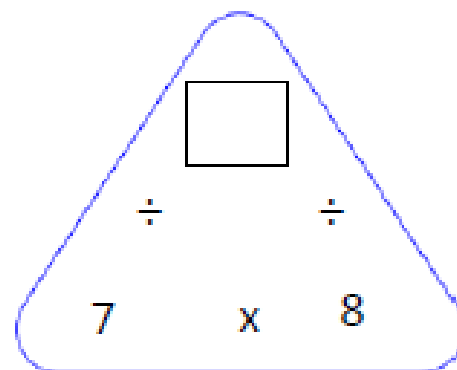
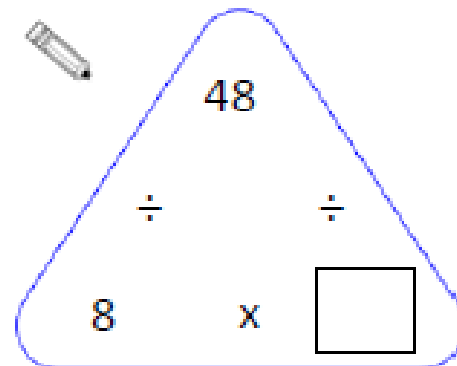
How many eights are there in 88?



How many eights are there in 64?



How many eights are there in 104?



Timestable Challenge x8

Draw a line to match the corresponding maths facts:



$$8 + 8 + 8 + 8$$



$$9 + 9 + 9$$



$$6 + 6 + 6 + 6$$

27

32

24

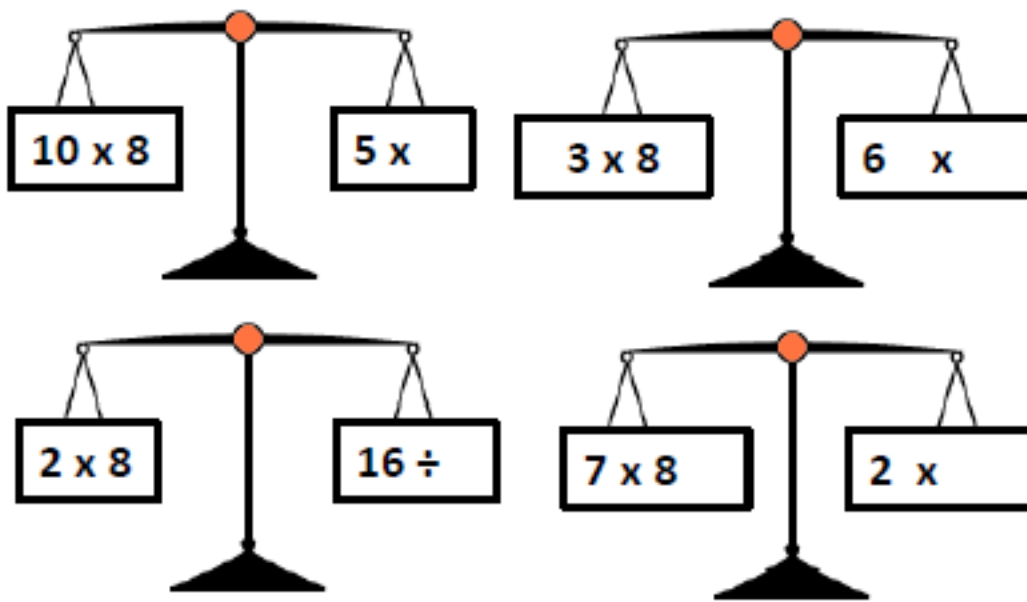
$$88 = \square \times 8$$

$$8 \times \square = 48$$

$$64 \div \square = 8$$

$$\square \times 8 = 32$$

$$\square \times 8 = 96$$



Timestable Challenge x9

$9 \times \square = 54$

$72 \div 9 = \square$

$\square \times 9 = 27$

$54 \div \square = 9$

$63 = \square \times 9$

$\square \div 9 = 7$

$9 \times \square = 81$


$108 \div 9 = \square$

$108 = \square \times 9$

$9 \div \square = 0$

$\square \times 9 = 36$

$\square \div 9 = 90$


 $\square = 9 \times 3$

Below, draw an array to show what $5 \times 9 =$

Here is a multiplication grid.
Fill in the missing numbers.

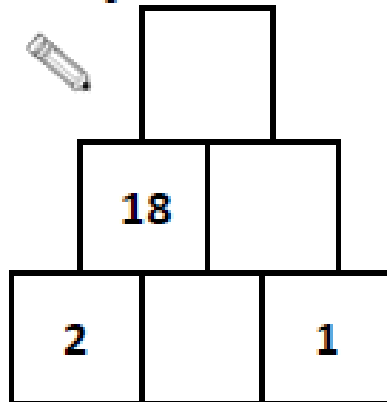
x		8	
3			21
9	81		
		32	



x	11		7
			28
12		96	
	99		



Here is a number pyramid.
The number in a box is the product
of the two numbers below it. Write
the missing numbers:



Timestable Challenge x9

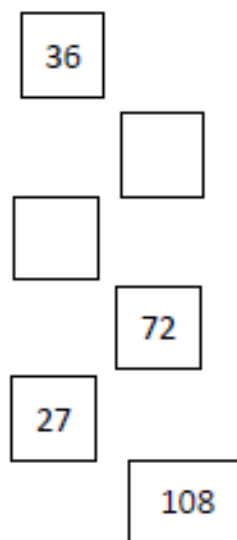
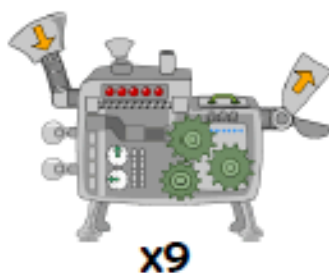
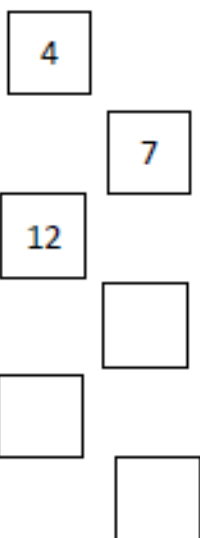
On the grid below, highlight all of the multiples of 9.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



What patterns can you notice in the multiples of 9? Describe these below, using mathematical vocabulary where possible:

Below is a number function machine. Can you fill in the gaps, using your knowledge of the 9 times tables? The first one is done for you.



Timestable Challenge x10

$3 \times \square = 30$

$20 = \square \times 10$

$\square \div 10 = 5$

$\square \times 10 = 110$

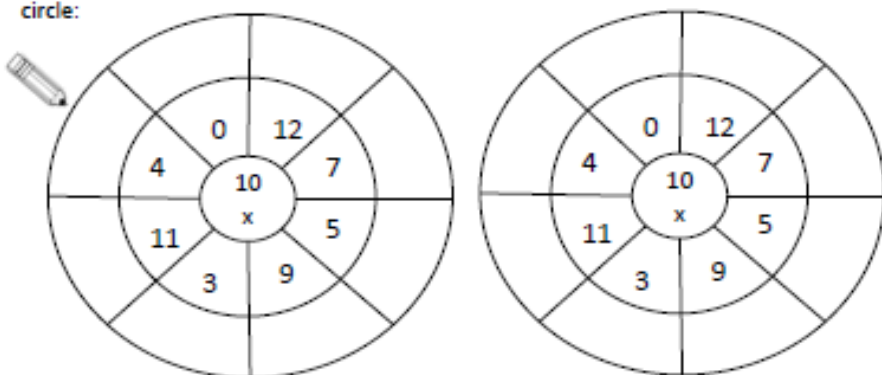
$\square \div 7 = 10$

$\square \times 10 = 160$

$60 = \square \times 10$

Here are some multiplication wheels. To complete them, multiply the number in the middle by numbers in the next circle:

$10 \times \square = 60$



$90 \div \square = 9$

$\square \times 10 = 40$

$\square \times 10 = 120$

$\square \div 10 = 10$

$90 = \square \times 10$

If you know that $4 \times 10 = 40$, you know that $4 \times 20 = \square$

If you know that $8 \times 10 = 80$, you know that $8 \times 20 = \square$

If you know that $12 \times 10 = 120$, you know that $12 \times 40 = \square$

If you know that $3 \times 10 = 30$, you know that $3 \times 20 = \square$

Timestable Challenge x10

Gavin says,

'If I need to multiply a number by 100, I can multiply it by 10 and then multiply my answer by 10 again.'

Is Gavin right?

Explain how you know:



How many tens are there in 100?



What is $10 \times 10 \times 10$?



What is the next number in this sequence:

600 60 6 0.6



How many tens are there in 40?



How many tens are there in 300?

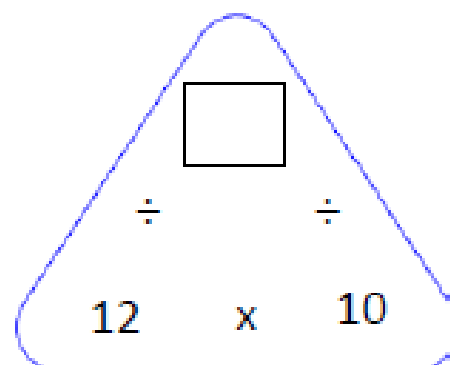
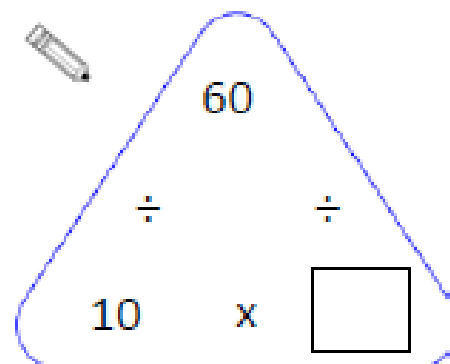


How many tens are there in 190?



How many tens are there in 8,600?

Here are some multiplication triangles. Fill in the gaps



Timestable Challenge x11

$3 \times \square = 33$

$0 = \square \times 11$

$11 \times \square = 143$

$\square \times 11 = 121$

$11 \times \square = 66$

$\square \times 11 = 33$

$66 = \square \times 11$

$11 \times \square = 132$

$99 \div \square = 9$

$\square \times 7 = 77$

$\square \times 11 = 110$

$\square \div 11 = 12$

$99 = \square \times 11$

$8 \times 11 = 88$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

$110 = 11 \times 10$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

$44 \div 4 = 11$

Write 3 other facts that you can derive from the one above:

1. _____
2. _____
3. _____

Here are some multiplication grids. Fill in the missing numbers:

x	12		4	x		11	
			36	9			81
8		48				132	
			44	7	21		

Timestable Challenge x11



If you know that $7 \times 11 = 77$, you know that $77 \div \square = 11$



If you know that 11×4 is equal to 44, what is 22×2 equal to?

Fill in the answers:



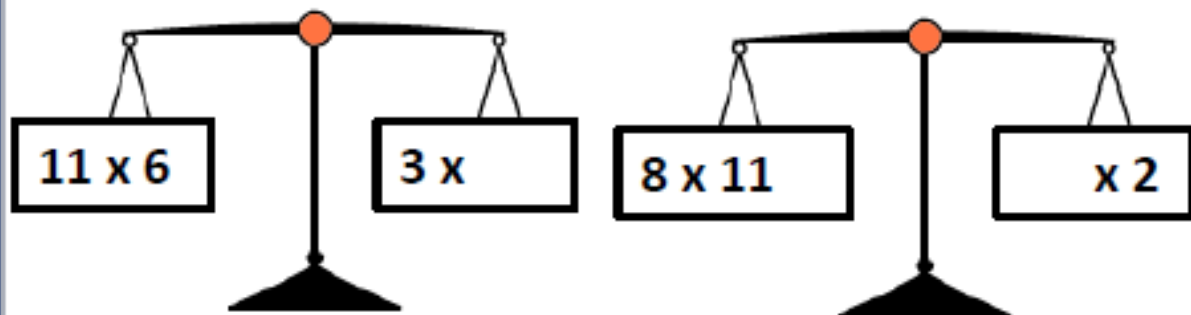
$11 \times 2 = 22$	$11 \times 4 =$	$11 \times 8 =$	$11 \times 16 =$
$121 \div 11 =$	$99 \div 11 =$	$11 \div 11 =$	$110 \div 11 =$

Harriet says,

'I think of a number and multiply it by 11. My answer is 86.'

Is Harriet correct?

Explain how you know:



Timestable Challenge x12

$12 \times \square = 72$

$0 = \square \times 12$

$\square \times 12 = 120$

$12 \times \square = 48$

$96 = \square \times 12$

$\square \times 12 = 132$

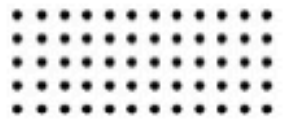
$12 \times \square = 36$

$12 \times \square = 96$

$84 = \square \times 12$

$12 \times \square = 108$

$\square \times 12 = 120$


 $\square = 12 \times 5$

$\square \times 12 = 24$


 $\square \times 12 = 36$

$\square \times 12 = 60$

$12 \times \square = 7 \times \square$

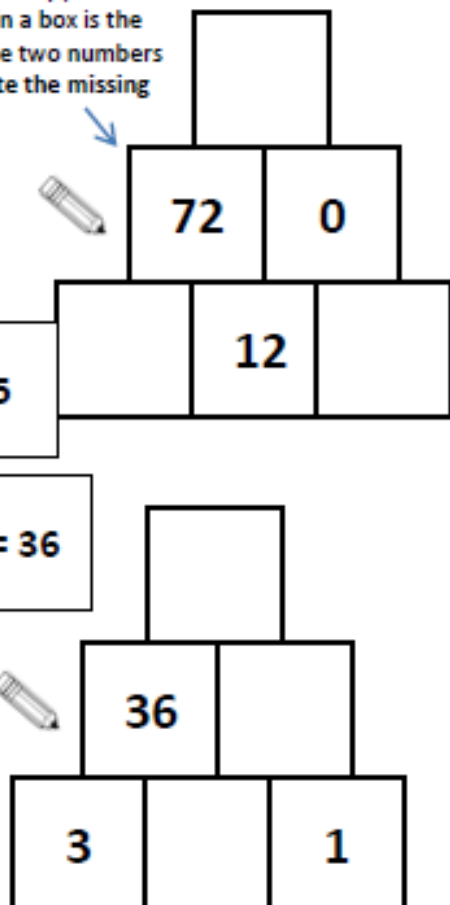
$144 = \square \times 12$

$96 \div \square = 12$

Here is a multiplication grid.
Fill in the missing numbers.

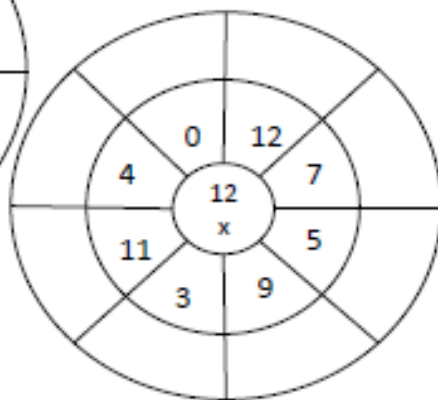
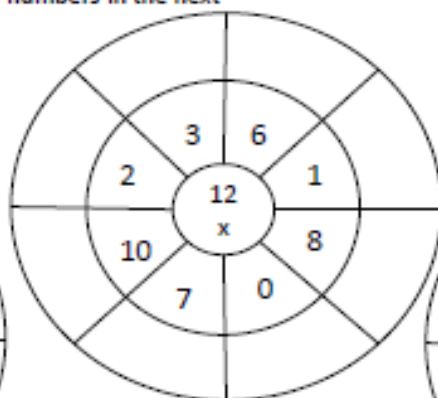
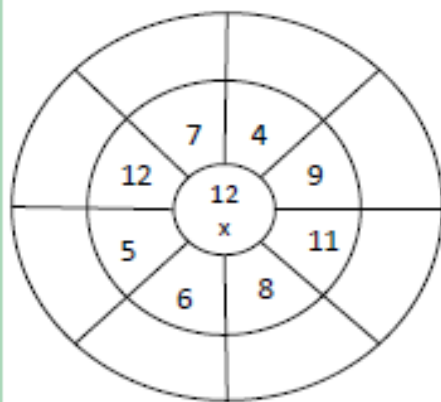
x	7		9
12		132	
	42		54
		33	

Here is a number pyramid.
The number in a box is the product of the two numbers below it. Write the missing numbers:



Timestable Challenge x12

Here are some multiplication wheels. To complete them, multiply the number in the middle by numbers in the next circle:

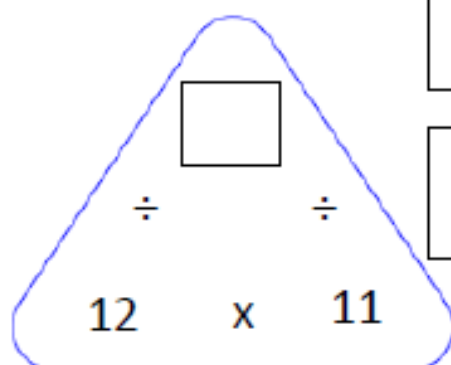
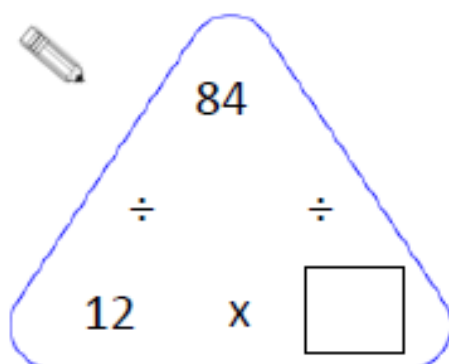


Louise says,

'If I double the answer to 3×12 , I will get the answer to 6×12 .'

Is Louise correct? YES/NO Explain how you know:

Here are some multiplication triangles. Fill in the gaps



$$12 \times 12 = \square$$

$$108 \div \square = 12$$