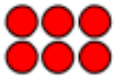
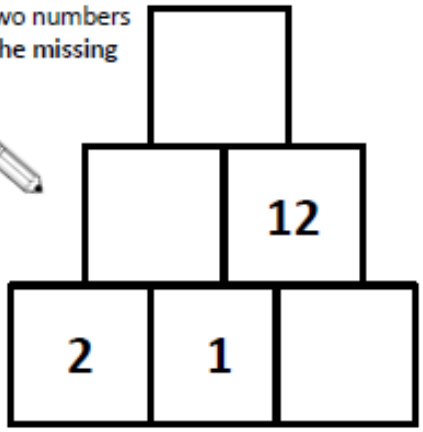
Timestable Challenge x1

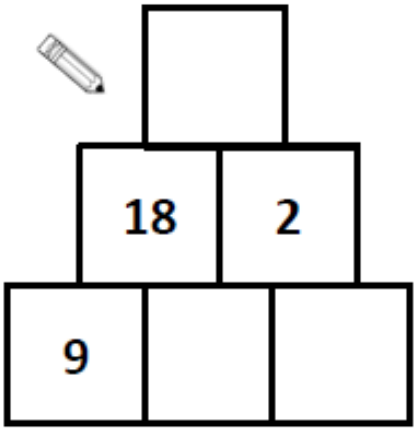
2 x ☐ = 16	2 = ☐ x 2
☐ x 2 = 6	2 x ☐ = 0
14 = ☐ x 2	☐ x 2 = 8
2 x ☐ = 22	2 x ☐ = 20
4 = ☐ x 2	 3 x ☐ = 6
☐ x 2 = 18	 ☐ = 2 x 8
☐ x 2 = 10	 ☐ x 5 = 10
☐ x 2 = 24	 12 = ☐ x ☐
12 = ☐ x 2	2 x ☐ = 9 x ☐

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

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 x 3 = 6**, you know that **2 x 6 =** ☐

If you know that **14 = 7 x 2**, you know that ☐ **= 14 x 2**

If you know that **10 = 5 x 2**, you know that ☐ **= 10 x 2**

If you know that **11 x 2 is equal to 22**,
what is **22 x 2 equal to?** ☐

2 x 3 = 6	2 x 6 =	2 x 12 =	2 x 24 =
16 x 2 = 32	8 x 2 =	4 x 2 =	2 x 2 =

2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 2 x ☐

How many 2s are there in 18? ☐

2 + 2 + 2 + 2 + 2 + 2 = 2 x ☐

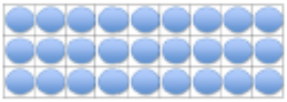
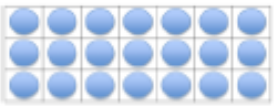
How many 2s are there in 24? ☐

Mike says,

'Every multiple of 2 ends in 2'

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

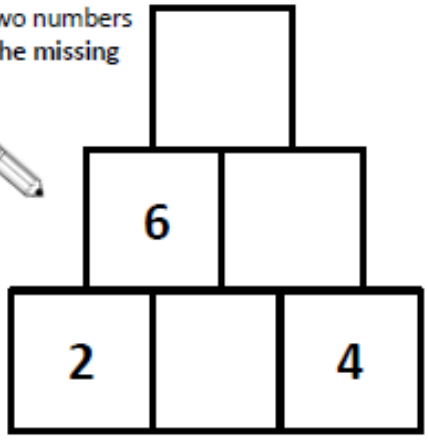
Timestable Challenge x 3

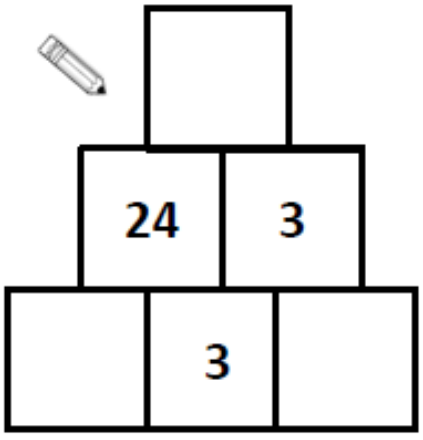
3 x ☐ = 9	3 = ☐ x 3
☐ x 3 = 0	3 x ☐ = 27
15 = ☐ x 3	☐ x 3 = 24
3 x ☐ = 36	3 x ☐ = 30
12 = ☐ x 3	3 x ☐ = 6
☐ x 3 = 18	 ☐ = 9 x 3
☐ x 3 = 33	 ☐ x 7 = 21
☐ x 3 = 21	 15 = ☐ x ☐
6 = ☐ x 3	3 x ☐ = 8 x ☐

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

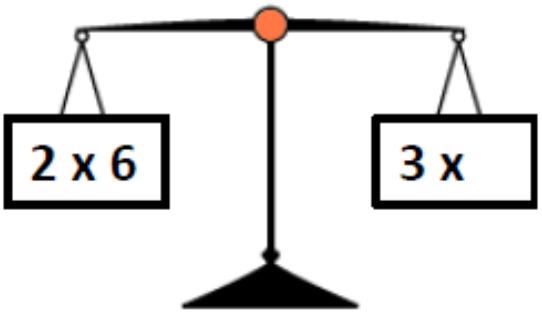
x	4	3	6
		9	
	8		12
5			

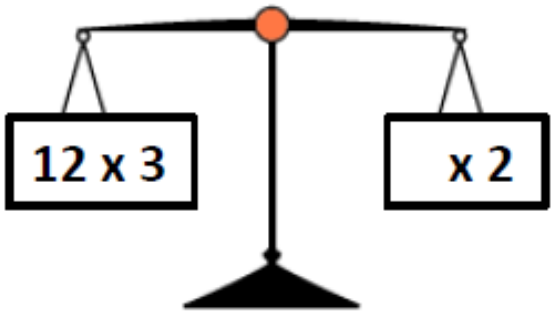
Here is a number pyramid.
The number in a box is the product of the two numbers below it. **Write the missing numbers:**

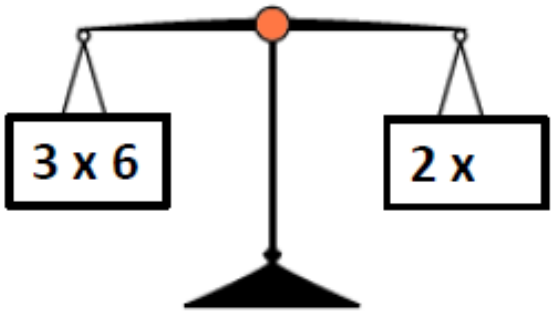


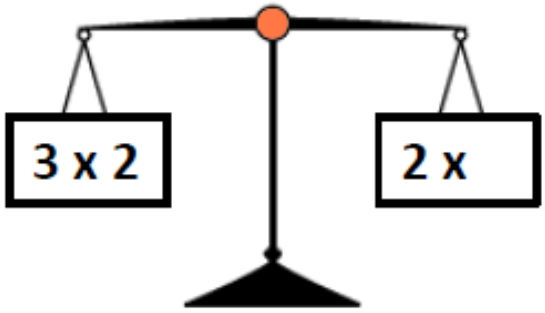


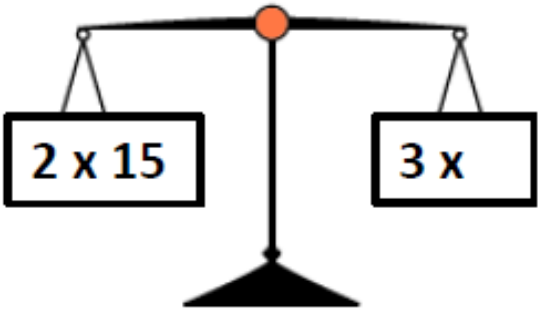
Timestable Challenge x 4

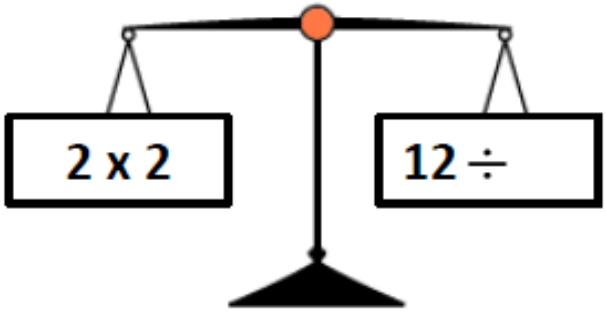


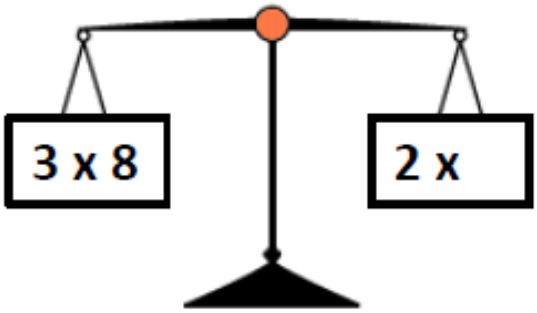


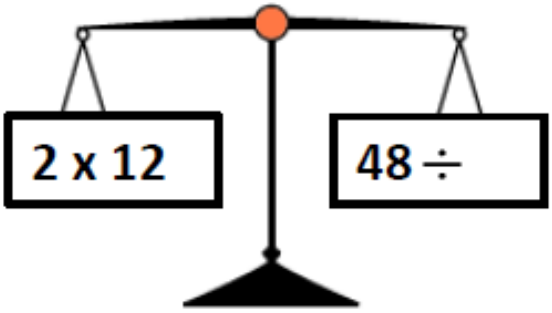












Timestable Challenge x 4

4 x ☐ = 16

52 = ☐ x 4

☐ ÷ 4= 50

☐ x 4= 40

☐ ÷ 4= 20

☐ x 4= 80

48 = ☐ x 4

4 x ☐ = 12

36 ÷ ☐ = 4

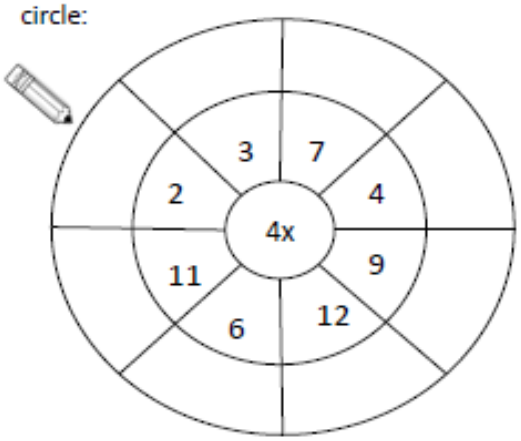
☐ x 4= 8

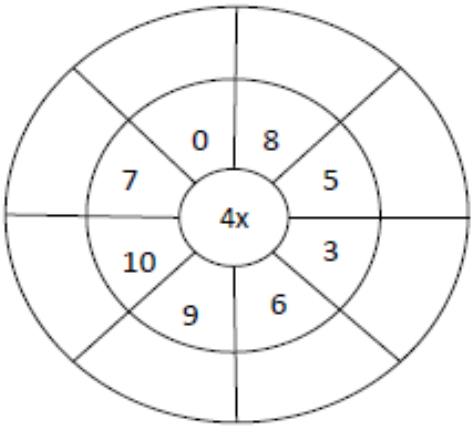
☐ x 4= 24

☐ ÷ 4 = 7

44 = ☐ x 4

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





If you know that **10 x 4= 40**, you know that **20 x 4=** ☐

If you know that **8 x 4= 32**, you know that **8 x 8=** ☐

If you know that **12 x 4= 48**, you know that **12 x 8=** ☐

If you know that **10 x 4= 40**, you know that **10 x 8=** ☐

Timestable Challenge x 4

4 x 7 = 28

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

1. _____
2. _____
3. _____

36 = 4 x 9

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

1. _____
2. _____
3. _____

48 ÷ 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,

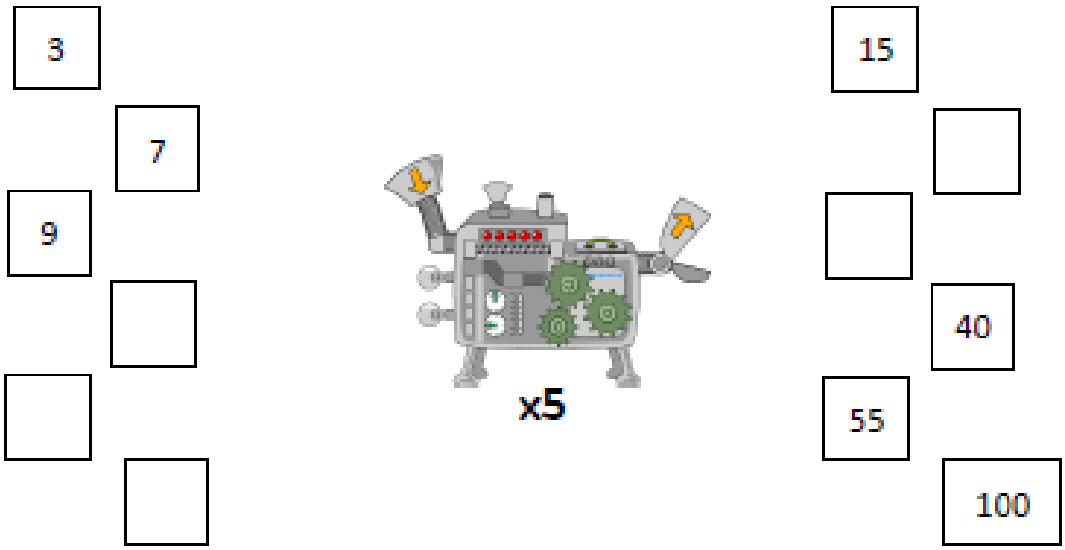
'Every multiple of 4 is also a multiple of 8'

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

Timestable Challenge x 5

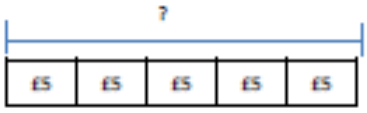
5 x ☐ = 20	5 x ☐ = 50	
☐ x 5 = 0	45 = ☐ x 5	5 x 20 = ☐
40 = ☐ x 5	☐ x 5 = 35	 5 x ☐ = 20
5 x ☐ = 25	3 x 50 = ☐	 ☐ ÷ 5 = 2

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 x 9 = 45, what is5 x 18? Explain how you worked it out:

What are five lots of 12? ☐

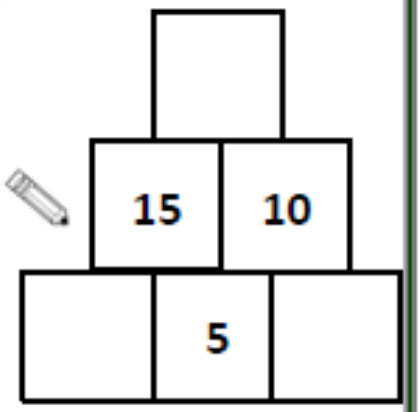
What is 5 x 5 x 5? ☐

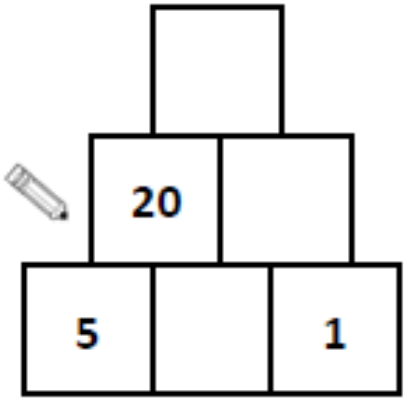
What are the next two numbers in this sequence:
120 115 110 105 ☐

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 x ☐ = 42

0 = ☐ x 6

☐ x 6 = 18

6 x ☐ = 60

30 = ☐ x 6

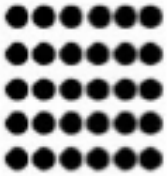
☐ x 6 = 30

6 x ☐ = 48

 ☐ = 6 x 4

12 = ☐ x 6

What division fact does this array show:



☐

☐ x 6 = 54

☐ x 6 = 72

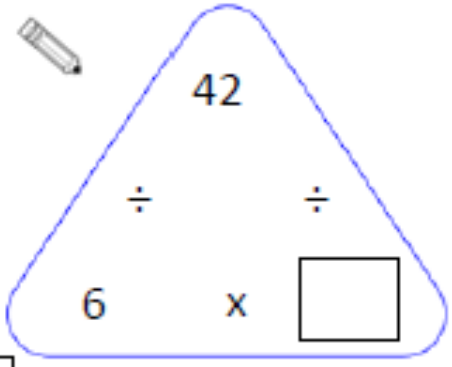
2 x ☐ =6 x ☐

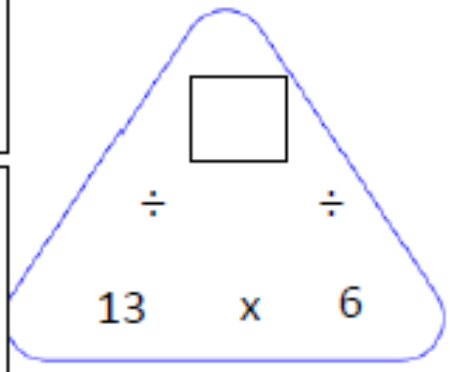
☐ x 6 = 36

6 x ☐ = 4 x ☐

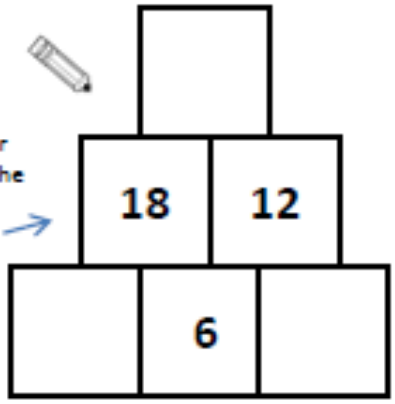
24 = ☐ x 6

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 x 6 = 12, you know that 2 x 18 = ☐

If you know that 24 = 6 x 4, you know that ☐ = 12x 4

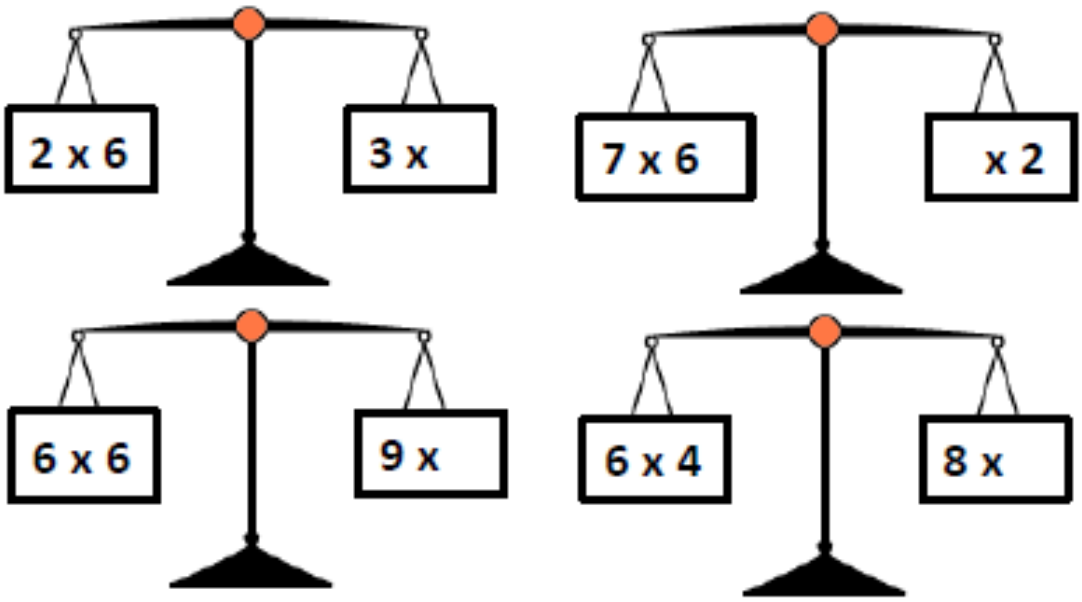
How many 6s are there in 54? ☐

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

How many 6s are there in 24? ☐

6 + 6 + 6 + 6 + 6 + 6 + 6 = 6 x ☐

6 x 2 = 12	6 x 4 =	6 x 8 =	6 x 16=



Timestable Challenge x 7

7 x ☐ = 42	49 ÷ 7 = ☐
☐ x 7 = 63	28 ÷ ☐ = 7
84= ☐ x 7	☐ ÷ 7 = 3
7 x ☐ = 56	63 ÷ 7 = ☐
77= ☐ x 7	☐ ÷ 7 = 5

28 = 7x 4

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

1. _____
2. _____
3. _____

56 ÷ 7= 6

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	

Timestable Challenge x 7

True or false:

$63 \div 7 = 64 \div 8$

Explain how you know:

True or false:

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

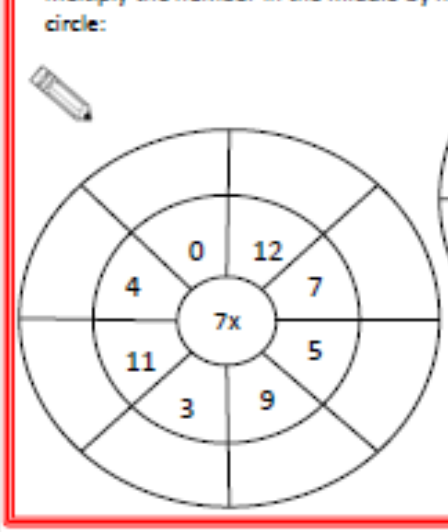
Explain how you know:

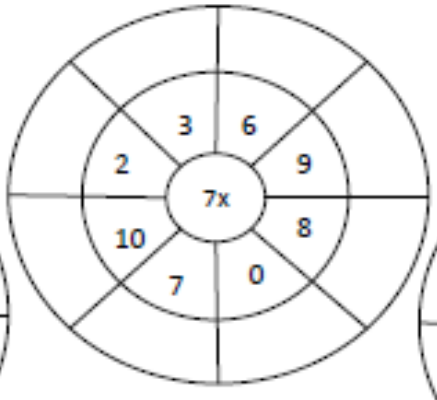
Paul says,

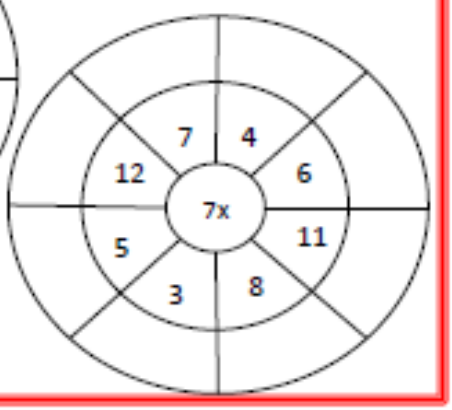
'If the digits in a two digit number can add up to be equal to 7, the number is a multiple of 7.'

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:



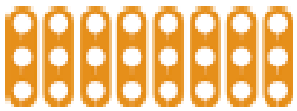




Timestable Challenge x 8

8 x ☐ = 16	72 ÷ 8 = ☐
☐ x 8 = 48	56 ÷ ☐ = 8
32 = ☐ x 8	☐ ÷ 8 = 5

8 x ☐ = 88	24 ÷ 8 = ☐

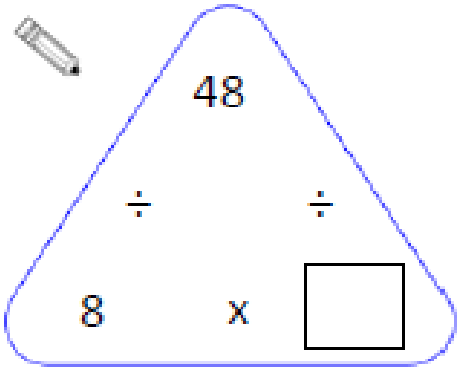


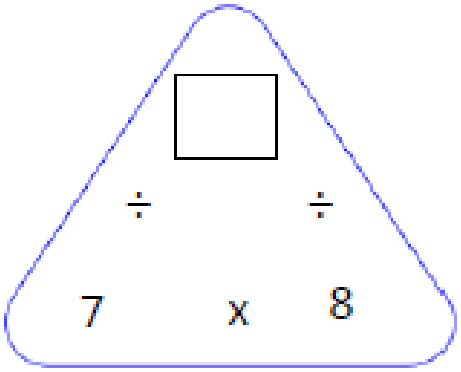
What multiplication fact does this array show?

☐

Here are some multiplication triangles. Fill in the gaps

- What is 8 x 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

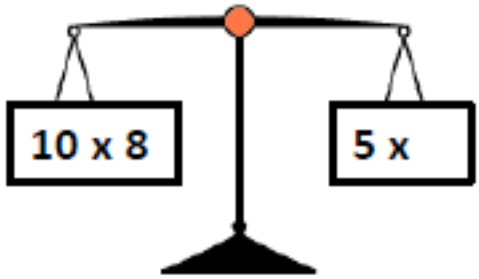
88 = ☐ x 8

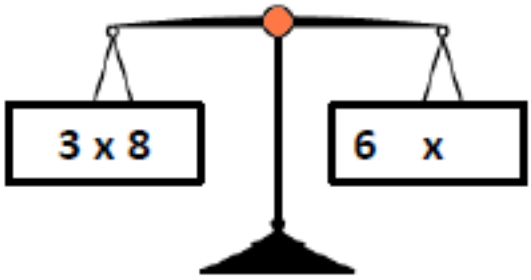
8 x ☐ = 48

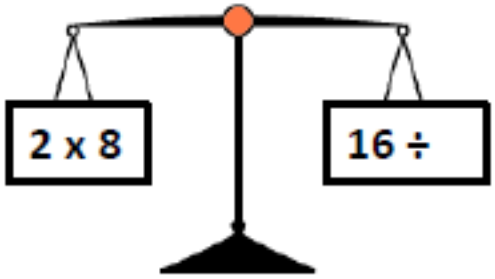
64 ÷ ☐ = 8

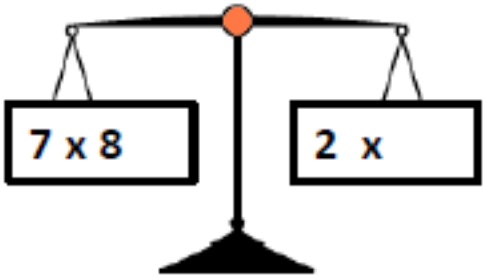
☐ x 8 = 32

☐ x 8 = 96









Timestable Challenge x9

9 x ☐ = 54	72 ÷ 9 = ☐
☐ x 9 = 27	54 ÷ ☐ = 9
63 = ☐ x 9	☐ ÷ 9 = 7
9 x ☐ = 81	108 ÷ 9 = ☐
108= ☐ x 9	9 ÷ ☐ = 0
☐ x 9 = 36	☐ ÷ 9 = 90

☐ = 9 x 3

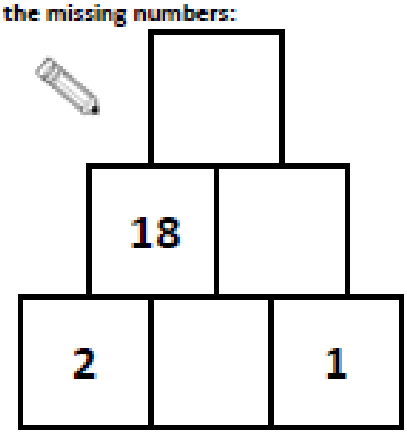
Below, draw an array to show what 5 x 9 =

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:



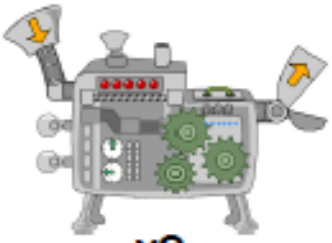
Timestable Challenge x9

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.



4	36
7	
12	
	72
	27
	108

Timestable Challenge x10

3 x ☐ = 30

20 = ☐ x 10

☐ ÷ 10 = 5

☐ x 10 = 110

☐ ÷ 7= 10

☐ x 10 = 160

60 = ☐ x 10

10 x ☐ = 60

90 ÷ ☐ = 9

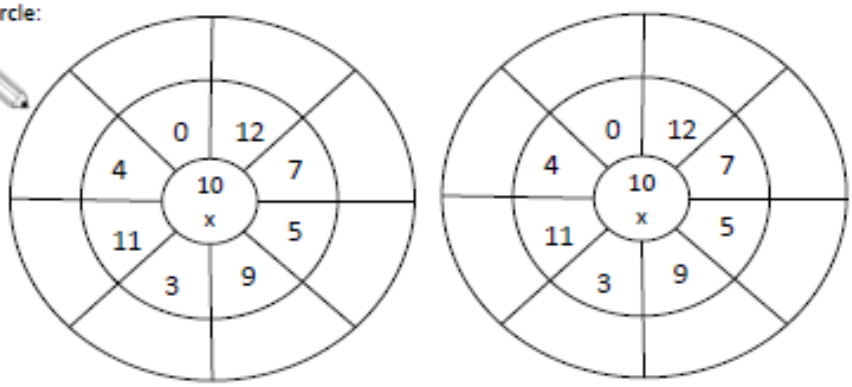
☐ x 10 = 40

☐ x 10 = 120

☐ ÷ 10 = 10

90 = ☐ x 10

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



If you know that **4 x 10 = 40**, you know that **4 x 20 =** ☐

If you know that **8 x 10 = 80**, you know that **8 x 20 =** ☐

If you know that **12 x 10 = 120**, you know that **12 x 40 =** ☐

If you know that **3 x 10 = 30**, you know that **3 x 20 =** ☐

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 x 10 x 10? ☐

What is the next number in this sequence:
600 60 6 0.6 ☐

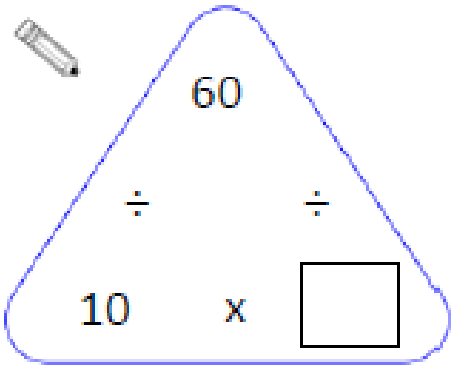
How many tens are there in 40? ☐

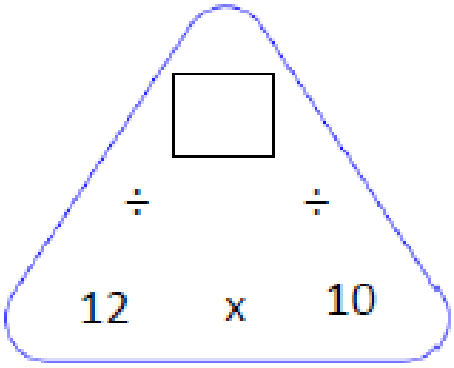
How many tens are there in 300? ☐

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 x ☐ = 33

0 = ☐ x 11

11 x ☐ = 143

☐ x 11 = 121

11 x ☐ = 66

☐ x 11 = 33

66 = ☐ x 11

11 x ☐ = 132

99 ÷ ☐ = 9

☐ x 7 = 77

☐ x 11 = 110

☐ ÷ 11 = 12

99 = ☐ x 11

8 x 11 = 88

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

1. _____
2. _____
3. _____

110 = 11 x 10

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

1. _____
2. _____
3. _____

44 ÷ 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
			36
8		48	
			44

x		11	
9			81
		132	
7	21		

Timestable Challenge x11

If you know that 7 x 11 = 77, you know that 77 ÷ ☐ = 11

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

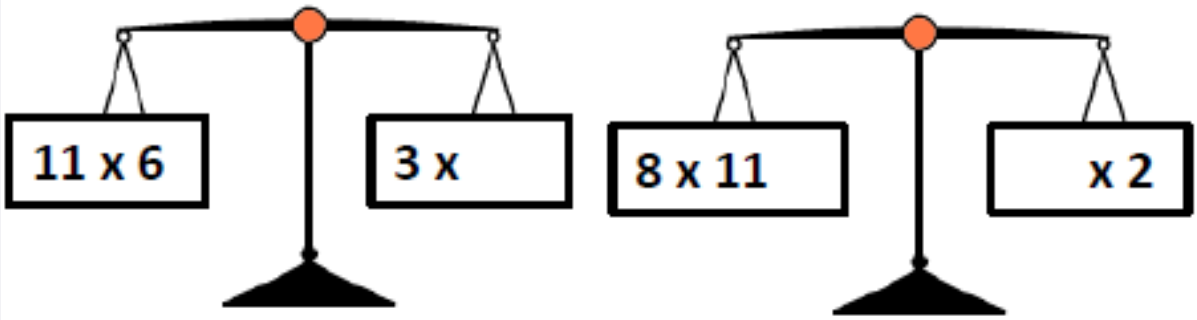
Fill in the answers:

11 x 2 = 22	11 x 4 =	11 x 8 =	11 x 16=
121 ÷ 11 =	**99 ÷ 11 =**	**11 ÷ 11 =**	**110 ÷ 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 x ☐ = 72

0 = ☐ x 12

☐ x 12 = 120

12 x ☐ = 48

96 = ☐ x 12

☐ x 12 = 132

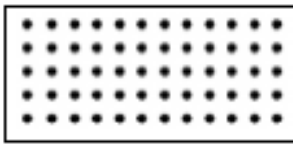
12 x ☐ = 36

12 X ☐ = 96

84= ☐ x 12

12 x ☐ = 108

☐ x 12 = 120

 ☐ = 12 x 5

☐ x 12 = 24

 ☐ x 12 = 36

☐ x 12 = 60

12 x ☐ = 7 x ☐

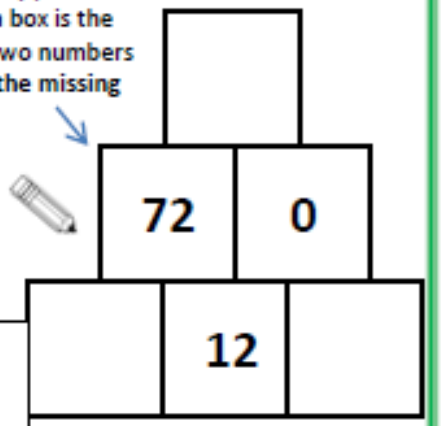
144 = ☐ x 12

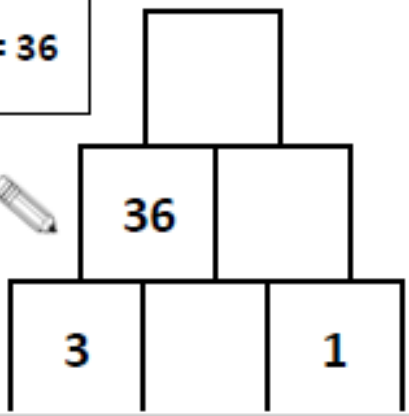
96 ÷ ☐ = 12

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

x	7		9
12		132	
	42		54
		33	

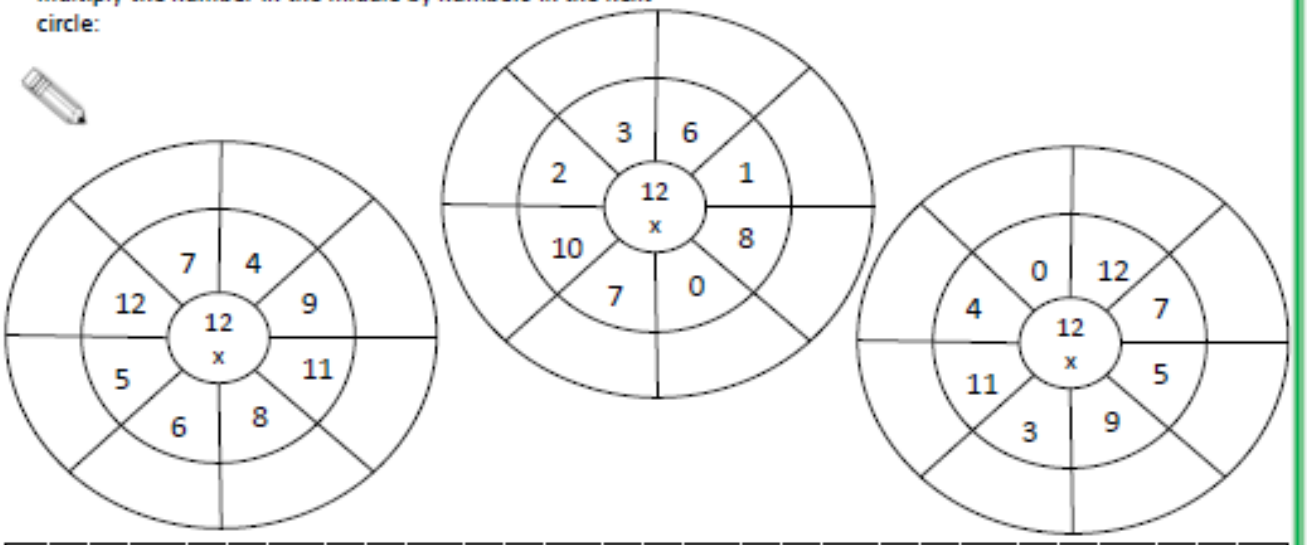
Here is a number pyramid.
The number in a box is the product of the two numbers below it. Write the missing numbers:





Timestable Challenge x12

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

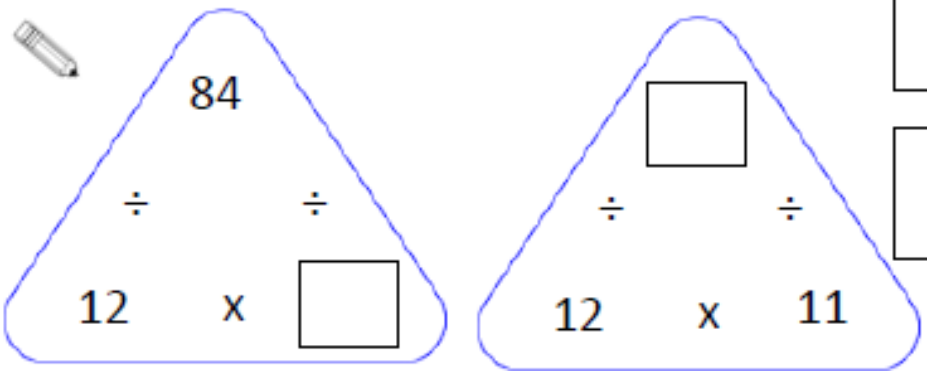


Louise says,

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

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

Here are some multiplication triangles. Fill in the gaps



12 x 12 = ☐

108 ÷ ☐ = 12