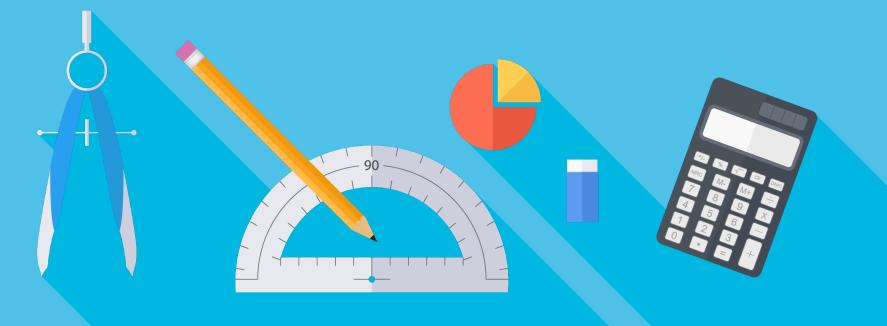
# Monday Week 3 Maths Task



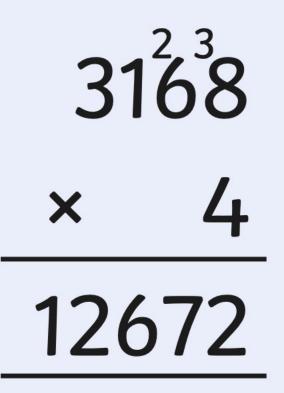
## Multiplication

WALT: Using formal algorithms to solve multiplication equations.

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

	83
×	27
	21
	560
	60
	1600
	2241

Eg.



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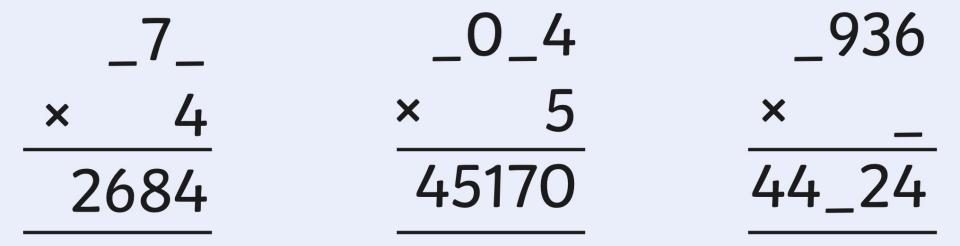
Here are three formal multiplication calculations.

Are the answers and method correct? Explain any errors.

452	2084	3168
× 3	× 7	× 4
12156	14588	12442

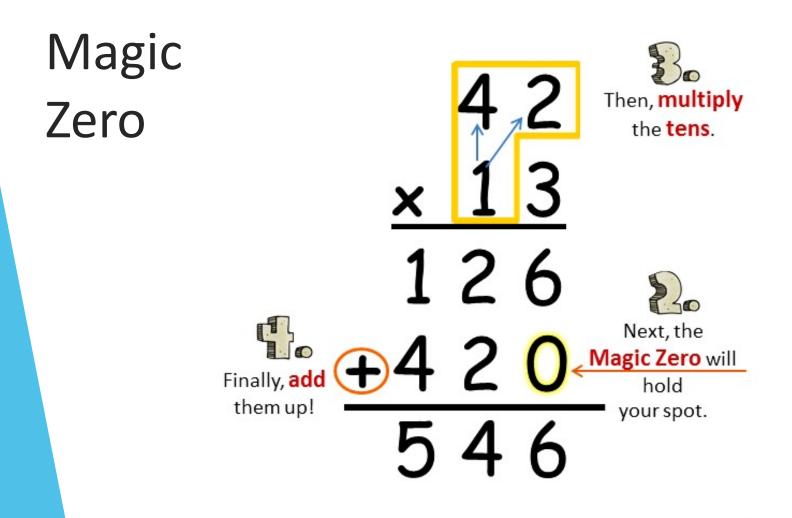
Write some of your own calculations with mistakes for a partner.

Calculate the missing number using formal methods.

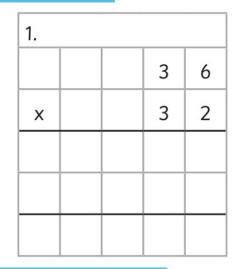


Calculate the missing number using formal methods.





## Your turn!



2.	 		
		4	6
х		3	3

3.	 	
	1	6
x	3	3

4.	 		
		1	4
х		2	3

1.				
		1	1	
			3	6
x			3	2
			7	2
	1	0	8	0
	1	1	5	2

2.				
		1	1	
			4	6
x			3	3
		1	3	8
	1	3	8	0
	1	5	1	8
		1		

3.			
	1	1	
		1	6
x		3	3
		4	8
	4	8	0
	5	2	8
	1		

4.			
	1	1	
		1	6
×		3	3
		4	2
	2	8	0
	3	2	2
	1		

#### Complete these calculations:

\_16\_ 13 X 9\_01 3\_670 7\_05 ×\_9 64845

\_4100

X 19\_42 4629\_0

64

#### Complete these calculations:

<u>3167</u> 13 X 9<u>5</u>01 31670 41171

7<u>2</u>05 × <u>2</u>9

64845

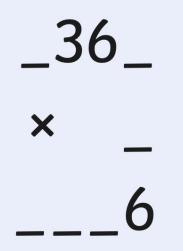
<u>1</u><u>4</u>4100

208945

<u>661</u>4 7<u>3</u> × 19<u>8</u>42 4629<u>8</u>0 482822

# **Missing Numbers**

How many different solutions can you find to solve this missing number question?



## **Missing Numbers**

2364	4368	1368	9366
<u>× 4</u>	<u>× 2</u>	<u>× 2</u>	<u>× 1</u>
<u>9456</u>	8736	2736	<u>9366</u>
1364	3368	1361	This can be
<u>× 4</u>	<u>× 2</u>	<u>× 6</u>	repeated with any number of 1000s, so 8
<u>5456</u>	<u>    6736</u>	<u>8166</u>	more.

BLUE	RED	GREEN
Solve these multiplication questions using a formal algorithm: 1. $24 \times 4 =$ 2. $22 \times 5 =$ 3. $18 \times 5 =$ 4. $26 \times 3 =$ 5. $12 \times 5 =$ 6. $48 \times 2 =$ 7. $41 \times 9 =$ 8. $31 \times 7 =$ 9. $44 \times 7 =$ 10. $32 \times 7 =$	Solve these multiplication questions using a formal algorithm: 1. $161 \times 23 =$ 2. $232 \times 36 =$ 3. $614 \times 18 =$ 4. $969 \times 95 =$ 5. $740 \times 96 =$ 6. $362 \times 58 =$ 7. $305 \times 71 =$ 8. $370 \times 64 =$ 9. $584 \times 15 =$ 10. $851 \times 89 =$	Solve these multiplication questions using a formal algorithm: 1. $2190 \times 69 =$ 2. $1342 \times 52 =$ 3. $1521 \times 73 =$ 4. $1143 \times 34 =$ 5. $2468 \times 27 =$ 6. $1895 \times 46 =$ 7. $1462 \times 70 =$ 8. $1239 \times 19 =$ 9. $1359 \times 77 =$ 10. $2127 \times 38 =$
Use a formal method to calculate the answers to these questions.	Use a formal method to calculate the answers to these questions.	Use a formal method to calculate the answers to these questions.
<ol> <li>There are 38 boxes of cereal on a shelf. How many boxes on 5 shelves?</li> <li>In the garden there is space for 18 rows of 32 seeds in a flower bed. How many seeds in a flower bed?</li> <li>There are 35 rows of 14 dominoes. How many dominoes are there altogether?</li> </ol>	<ol> <li>There are 25 rows of 18 stickers on a sheet. How many stickers are there on a sheet? How many on 10 sheets?</li> <li>There are 17 biscuits in a packet and 3 packets in a box. A supermarket orders 15 379 boxes. How many biscuits will be in the 15 379 boxes?</li> <li>A factory makes nine crates of 38628 pencils on each of the five working days of the week. How many pencils are made each week?</li> </ol>	<ol> <li>A machine makes 60 802 bottle tops in a week. In a 52-week working year, how many bottle tops are made in a year?</li> <li>Bags of potatoes contains an average of 33 potatoes. In a year, a farmer sells 58 716 bags. How many potatoes does she sell in one year?</li> <li>A factory makes 63 957 nails each day. How many nails are made in January and February 2017, when the factory is open every day?</li> </ol>

#### Be the Teacher

For this task, you are going to imagine you are the teacher.

Look at the calculations that Sonny has completed. Complete your own calculation next to them so you can work out whether Sonny's answers are correct or incorrect. Put a tick if it is correct and if it is wrong, put a cross and **explain** what mistake has been made. Give Sonny a mark out of 5 at the end.

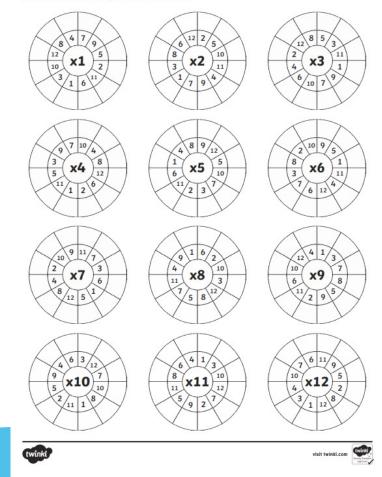
The first one has been done as an example.

		4	6	7	2					4	6	7	2	
	×			1	6				×			1	6	
	2	8	0	3	2				2	8	0	3	2	
	4	6	7	2	0				4	6	7	2	0	
	6	4	7	5	2	×			7	4	7	5	2	
Con	nment:	8 + 6	is 14 l	out you	u have	forgot	ten to	carry t	the 1 in	ıto the	ten th	ousan	ds colı	ımn.
1.		5	6	3	4									
	×			2	3				×					
	1	6	9	0	2									
	1	1	2	6	8									
	2	8	1	7	0									
Con	nment:													

## **Extension Task**

#### **Multiplication Wheels**

Multiply the numbers by the middle number.



# Additional Task

Complete the *Multiplication Wheels* worksheet on the school website.