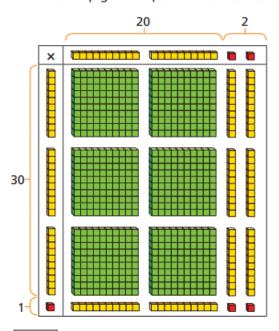
# Monday

### Multiply 2-digits (area model)



Kim is using base 10 to work out  $31 \times 22$ 

Use Kim's model to help you complete the sentences.

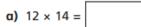


There are ones altogether.

tens altogether. There are

hundreds altogether. There are

Use base 10 to work out the multiplications.

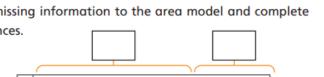


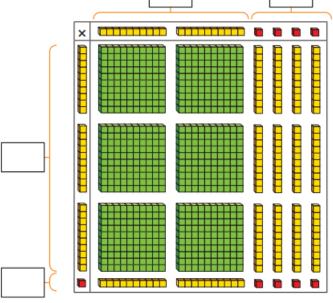
**b)** 23 × 13 =



Amir is using base 10 to calculate  $31 \times 24$ 

a) Add the missing information to the area model and complete the sentences.





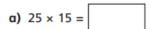
There are ones altogether.

There are tens altogether.

hundreds altogether. There are

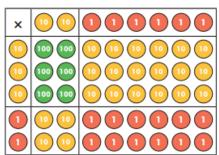
- b) Describe any exchanges you need to make.
- c) Complete the multiplication.

Use base 10 to work out these multiplications.





Use the place value counters to complete the multiplication grid and sentence.



×	20	6
30		
2		

6 Use an area model to help you complete the multiplication.

α) 28 × 14 =

×	20	8
10		
4		

d) 45 × 36 -

×	

**d)** 45 × 36 =

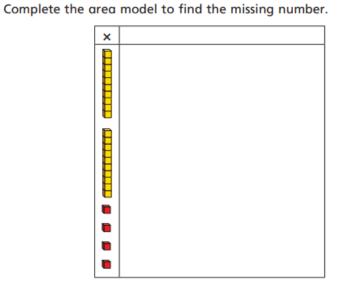
Complete the multiplications.

**b)** 27 × 16 =















How many different answers can you find?

How many products are there between 1,000 and 1,500?



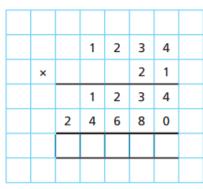


# Tuesday

### Multiply 4-digits by 2-digits

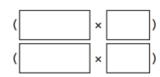


Complete the multiplication.



- 2 Tommy is calculating  $1,234 \times 26$ 
  - a) Complete his working out.

		1	2	3	4	
×				2	6	
		7,	42	02	4	
	2	4	6	8	0	



**b)** Fill in the grid to check Tommy's working is accurate. You may use place value counters to help.

×	1,000	200	30	4
20				
6				

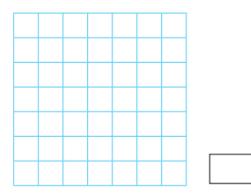


Rosie is calculating 2,541 × 42
Here is Rosie's working.

	2	5	4	1	
×			4	2	
	4,	0	8	2	(2,541 × 2)
	82	0,	6	4	$(2,541 \times 40)$
1,	2	1,	4	6	

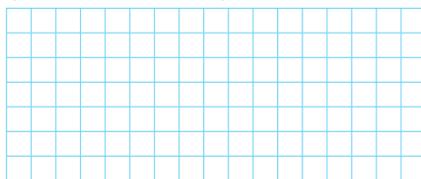
a) Rosie has made two mistakes. What are they?

b) What is the correct answer?



Work out the multiplications.

a) 
$$4,284 \times 23$$



What do you notice?



A machine makes 2,734 boxes every hour.  The machine works for 3 hours each day.  a) How many boxes will it make in 12 days?	a) Using all the digit cards, create 4 different calculations and work out the answer to each.	
b) Compare methods with a partner. Were there any other ways you could have worked out the answer?	b) Write your answers in ascending order.	
Work out 378 × 7 × 12  Show your method clearly.	c) What is the smallest product that can be made?	
	Amir scores 4,680 points in a computer game for 12 games in a row.  Whitney scores 2,512 points every game for 24 games.  Who scores more points?	
	How many more?	

### Wednesday

#### Divide with remainders

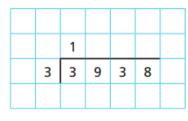


1

a) Circle the groups of 3 to help complete the sentences and calculation.

The first step has been done for you.

Th	Н	Т	0
	100 100 100 100 100 100 100 100 100 100	9	



There is 1 group of 3 thousands.

There are groups of 3 hundreds.

There is group of 3 tens.

There are groups of 3 ones.

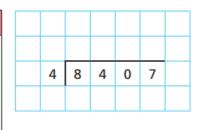
There are ones left over.

3,938 ÷ 3 = remainder



b) Use place value counters to work out 8,407 ÷ 4

Th	Н	Т	0

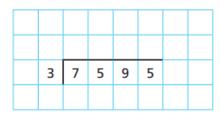


8,407 ÷ 4 = remainder
-----------------------

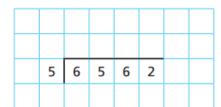
2

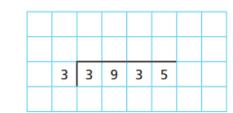
a) Complete the divisions.

Use place value counters to help you.



4	8	5	6	7	





b) Write <, > or = to complete the statements.





Write the calculations in the correct column of the table.

 $5,066 \div 4$ 

 $9,513 \div 4$ 

 $1,234 \div 4$ 

 $6,562 \div 4$ 

 $6,563 \div 4$ 

 $9,515 \div 4$ 

Remainder of 1	Remainder of 2	Remainder of 3	Remainder of 4

Are any columns empty? Talk to a partner about why this has happened.

7,816

7,861

6,781

1,786

I know that if I divide these numbers by 5 the remainder will be 1



Is Eva correct? \_\_\_\_\_

How do you know?



There are 459 children in a school.

They are sitting at tables in groups of 7

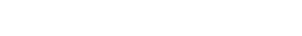


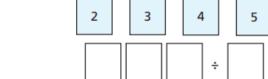
We will need 65 tables.

Do you agree with Mo? \_

Explain your answer.

Bags of crisps are put into multipacks of 6 The multipacks are then packed into boxes of 8 Yesterday, 6,500 bags of crisps were packed. How many boxes of crisps were packed?





a) How many ways can you complete the calculation using all the digit cards so that there is a remainder of 1?

b) What do you notice?

Dora is thinking of a number between 500 and 600 When she divides it by a 1-digit number it has a remainder of 4 What could Dora's number be?















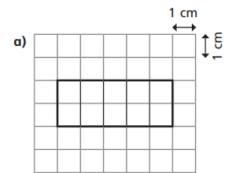


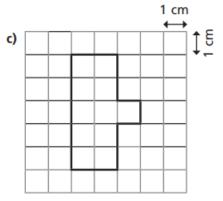
# Thursday

### Calculate perimeter



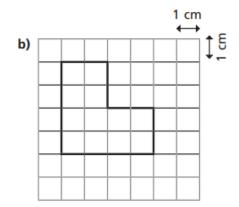
Calculate the perimeter of each shape.

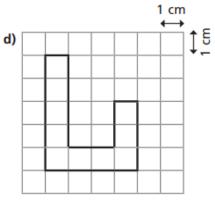






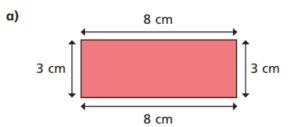




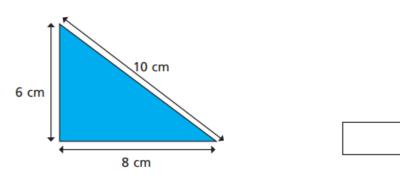




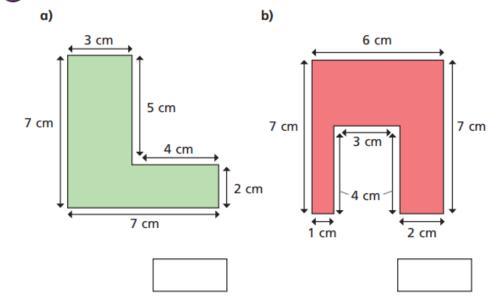
Calculate the perimeter of these shapes.



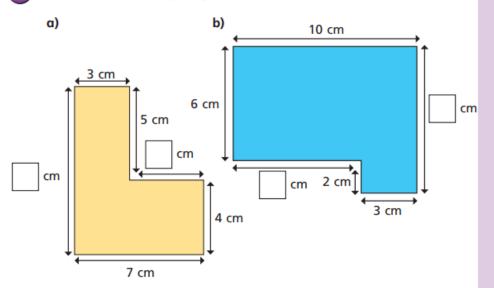
b)



Calculate the perimeter of these shapes.

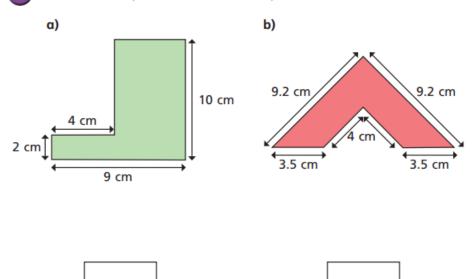


Work out the missing lengths on these shapes.



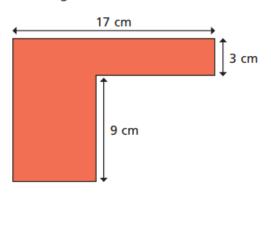
Discuss with a partner how you worked them out.





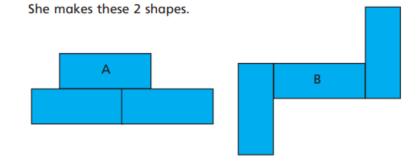
6 Mo thinks that there is not enough information to calculate the perimeter of the shape.

Is he correct? How do you know?





Each rectangle has a length of 10 cm and a width of 4 cm.



- a) Which shape has the greatest perimeter? \_\_\_\_\_
- b) What other shapes can you make with 3 rectangles?What is the perimeter of the shapes?







# Friday

### **Note to Parents:**

The Friday Challenge will be made available on the White Rose Year 6 Home Learning page closer the time.