Maths Answer Pack - Week 10

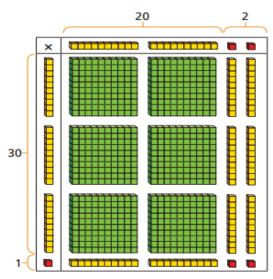
Lesson 1 - Teach and Practise - Multiply 2 digits

Multiply 2-digits (area model)

White Rose Maths

Kim is using base 10 to work out 31 x 22

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



There are 2 ones altogether.

There are 8 tens altogether.

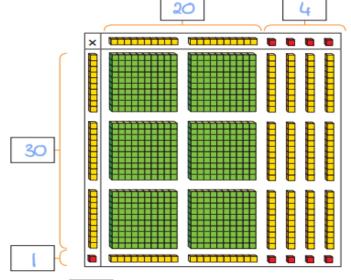
There are 6 hundreds altogether.

Use base 10 to work out the multiplications.



Amir is using base 10 to calculate 31×24

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



There are unones altogether.

There are I4 tens altogether.

There are 6 hundreds altogether.

b) Describe any exchanges you need to make.

Exchange 10 tens for 1 hundred

c) Complete the multiplication.

Use base 10 to work out these multiplications.

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

×	000	000000
0	100 100	
0	100 100	
0	100 100	
0	00	000000
0	000	000000

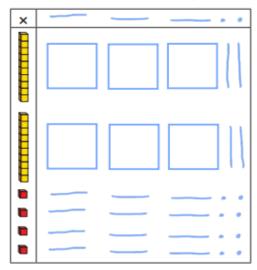
×	20	6
30	600	180
2	40	ıa

Use an area model to help you complete the multiplication.

c)	35	×	22	=	770
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×	20	8
10	200	80
4	80	32

Complete the area model to find the missing number.



Use each digit card once to write a multiplication.

How many different answers can you find?

Various answers

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

Multiply 4-digits by 2-digits



Complete the multiplication.

		1	2	3	4	
×				2	1	
		1	2	3	4	
	2	4	6	8	0	
	2	5	9	- 1	4	
			1			

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

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

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	20,600	4,000	600	80
6	6,000	1,200	180	24



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	
- 1						

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

She has multiplied by 4 not 40

b) What is the correct answer?



106,722

Work out the multiplications.

a) 4,284 × 23

b) 2,142 × 46

	4	2	ક	4			2	١	4	२		
×			2	3		χ			ч	6		
1	2	28	ຸຣ	2		1	2	\$	5	2		
8	5	6	ક	0		જ	5	6	8	0		
9	8	5	3	2		9	8	5	3	2		
	f	1					1	1				

What do you notice?

5	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?

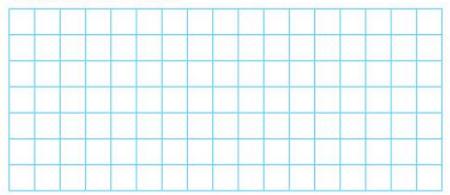
98,424

b) Compare methods with a partner. Were there any other ways you could have worked out the answer?



6 Work out 378 x 7 x 12

Show your method clearly.



31,752

7	1	2	3	4	5	6						
								×				
		sing all				eate	4 differ	ent	calcu	lation	ns and	work
	١	/ario	ws au	wan	ers.							
	b) W	/rite yo	ur ans	wers	in asce	ending	order.					
	¥ T											
	c) W	/hat is	the sm	allest	produ	ict the	at can b	oe m	ade?	L	31,9	28
8	Amir	scores	4,680	points	in a (comp	ıter ga	me f	or 12	2 gam	es in o	row.
	Whit	ney sco	ores 2,5	512 pc	oints e	very (game fo	or 24	1 gan	nes.		
	Who	scores	more p	points	?					Whi	kney	
	An	nir:	56,16	0								
	W	nitney	: 60,	288								
	How	many	more?								4,18	18

Divide with remainders

Maths

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
	99999 9999		

	1	3	-1	2	r 2
3	3	9	3	8	

There is 1 group of 3 thousands.

There are 3 groups of 3 hundreds.

There is group of 3 tens.

There are 2 groups of 3 ones.

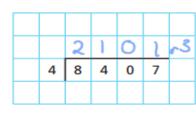
There are 2 ones left over.

 $3,938 \div 3 = 1,3[2]$ remainder



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

000	0
0000	0000

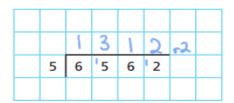


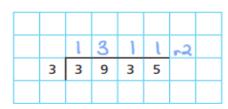
a) Complete the divisions.

Use place value counters to help you.

			3		ړ2	
3	7	¹ 5	9	5		

	2	1	4	1	ر3	
4	8	5	۱6	7		





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

Write the calculations in the correct column of the table.

5,066 ÷ 4

9,513 ÷ 4

1,234 ÷ 4

6,562 ÷ 4

6,563 ÷ 4

9,515 ÷ 4

Remainder of 1	Remainder of 2	Remainder of 3	Remainder of 4
9,513+4	5066÷ 4	6563 ÷ 4	
	6,562 +4	9,515÷4	
	1,234 +4		

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

4

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? 400

How do you know?



There are 459 children in a school.

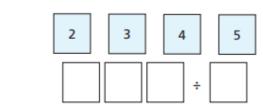
They are sitting at tables in groups of 7



Do you agree with Mo? NO 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?

135



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?
- 8 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?