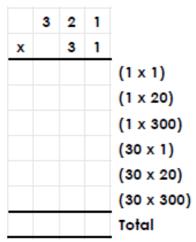
## **Bronze**

1a. Use the fully expanded method to complete the calculation below.



仚

321 x 31

=

2a. Complete the calculations below.

		Α.					В.
	2	0	3			3	1
х		3	2		x		1
				(2 x 3)			
				$(2 \times 0)$			
				(2 x 200)			
				(30 x 3)			
				$(30 \times 0)$			
				(30 x 200)			
				Total			

3 1 4 x 2 1 (1 x 4) (1 x 10) (1 x 300) (20 x 4) (20 x 10) (20 x 300)

Total

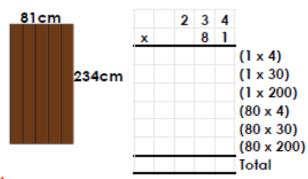


Which has the larger answer?

3a. Elise says,



My tablecloth is twice as big as the table.



硷

What is the area of her tablecloth? ve

1b. Beau and Selina are working on the same calculation. They get different answers.

	В	ea	U			iel	inc	1	
	2	2	4			2	2	4	
X		3	1		x		3	1	
			4	(1 x 4)				4	(1 x 4)
			2	$(1 \times 20)$			2	0	(1 x 20)
			2	$(1 \times 200)$		2	0	0	$(1 \times 200)$
	1	2	0	(30 x 4)		1	2	0	$(30 \times 4)$
	6	0	0	(30 x 20)		6	0	0	(30 x 20)
6	0	0	0	(30 x 200)	6	0	0	0	(30 x 200)
6	7	2	8		6	9	4	4	

仚

VF

Who is correct?

PS

2b. Complete the calculations so that calculation B is greater than calculation

Α.	1	۵.				ı	В.	
	3	1	2					
X		2	4		x	Г	2	4
				(4 x 2)	Г			
				$(4 \times 10)$				
				(4 x 300)				
				$(20 \times 2)$				
				$(20 \times 10)$				
				(20 x 300)				
				Ī				



VF

3b. Jan is waterproofing her decking. Each bottle covers an area of 3,000cm<sup>2</sup>. The decking is 205cm x 42cm.

2	0	5	
	4	2	
			$(2 \times 5)$
			$(2 \times 0)$
			(2 x 200)
			$(40 \times 5)$
			$(40 \times 0)$
			(40 x 200
	2	4	



She thinks she needs to buy 2 bottles. Is she correct? Explain your answer.

## Silver

4a. Use t to compl				-			hod	
			1	6	2			
	x			4	2			
						_		
						_		
۸ .	<b>,</b> 0	_	10					
Ä	62 x				_	$\dashv$		VF
5a. Com A.	plete t	he c	alcu	ılatio B		elow	<i>'</i> .	
1	0	1			3	1	6	
X	4	2		X		1	2	
<b>₩</b>	nich ho	as th	e lar	ger o	insw	er?		VF
6a. Mich	ael sa	ys,						
				ains o				
63cm	_				1	2	2	
				X		6	3	
$\vdash$	1:	22cr	n					
								-
♦ wh	at is th	ne a	rea o	of his	curt	ains	?	VF

4b. Chen and Jamie are working on the same calculation. They get different answers.

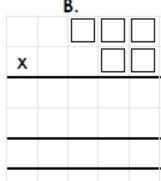
	Chen					Jamie				
		4	3	4				4	3	4
X			2	5		X			2	5
	2	1,	72	0			2	0,	52	0
	8	6	8	0			8	6	8	0
1	0	8	5	0		1	0	6	3	0
		1						1		

	٨		
$ \overline{}$	F	フ	
L	Ä	1	

Who is correct?

5b. Complete the calculations so that calculation B is greater than calculation

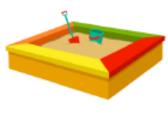
<b>~</b> .	A.			
	4	6	2	
X		3	2	X



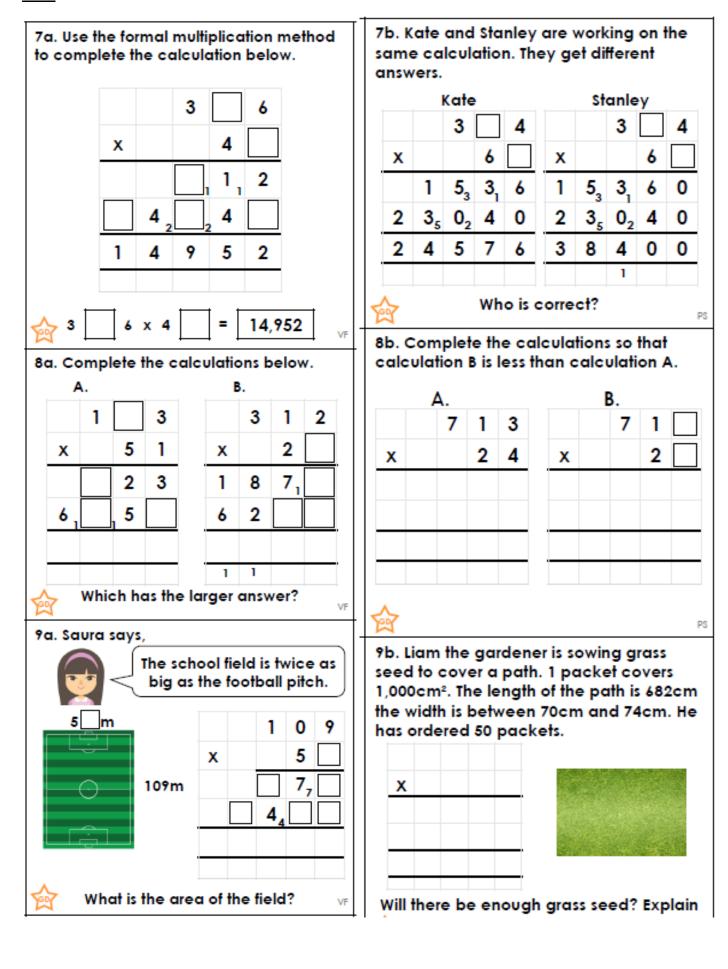


6b. James is filling the sandpit with sand. One bag of sand covers an area of 1,000cm<sup>2</sup>. The sandpit is 215cm x 95cm.





He thinks he needs to buy 21 bags of sand. Is he correct? Explain your answer.



## Challenge

1. The school council are organising a disco and want to advertise the event on a banner on the school fence, which has an area of 30,000cm². The headteacher has told them that they need to leave 75cm free on one side for some road safety posters. They are trying to decide which banner is the largest they can buy. What could the dimensions of the fence be?

Option A
Dimensions: 225cm x 45cm

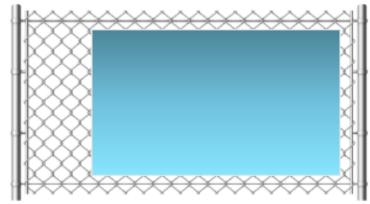
Option B
Dimensions: 250cm x 55cm

Option C
Dimensions: 275cm x 65cm

Option D
Dimensions: 325cm x 75cm

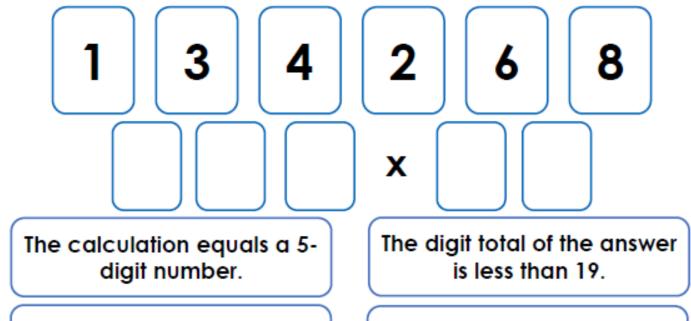
Option E

Dimensions: 385cm x 85cm



Which is the largest banner they can buy? Which other options can they buy?

Arrange the digit cards to make a calculation where the answer matches all four statements below.



One of the digits in the answer is 0.

The answer is divisible by 4.