

Maths Chilli Challenge – Multiplying 3 digit numbers by 2 digit numbers



Look at the challenges below, choose a level of chilli you want to start with. If you feel confident, have a go at the next set of questions. The answers will be published on Monday.



Mild

Use the fully expanded method to complete the calculation below.

	3	2	1	
x		3	1	
<hr/>				
				(1 x 1)
				(1 x 20)
				(1 x 300)
				(30 x 1)
				(30 x 20)
				(30 x 300)
				Total

321 x 31 =

9,951

Complete the calculations below.

A.

	2	0	3	
x		3	2	
<hr/>				
				(2 x 3)
				(2 x 0)
				(2 x 200)
				(30 x 3)
				(30 x 0)
				(30 x 200)
				Total

B.

	3	1	4	
x		2	1	
<hr/>				
				(1 x 4)
				(1 x 10)
				(1 x 300)
				(20 x 4)
				(20 x 10)
				(20 x 300)
				Total

Which has the larger answer?

VF

A. 6,496; B. 6,594.

The larger answer is B.



Medium

Use the formal multiplication method to complete the calculation below.

		1	6	2	
x			4	2	
<hr/>					

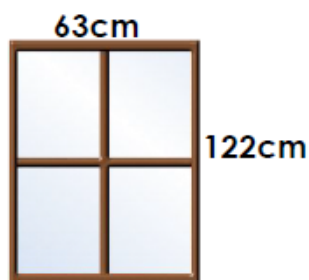
162 x 42 =

6,804

Michael says,



My curtains are twice as big as the window.



	1	2	2	
x		6	3	
<hr/>				

What is the area of his curtains?

VF

15,372cm².



Hot

Use the formal multiplication method to complete the calculation below.

		3		6
x			4	
<hr/>				
			1	2
			₁	₁
	4		4	
	₂	₂		
<hr/>				
1	4	9	5	2
<hr/>				

$$3 \square 6 \times 4 \square = \boxed{14,952}$$

$$356 \times 42 = 14,952$$



Spicy

Saura says,



The school field is twice as big as the football pitch.



		1	0	9
x			5	
<hr/>				
			7	
			₇	
		4		
		₄		
<hr/>				
<hr/>				

What is the area of the field?

VF

$$12,644 \text{ cm}^2$$

Complete the calculations below.

A.

	1		3
x		5	1
<hr/>			
		2	3
6		5	
₁	₁		
<hr/>			
<hr/>			

B.

	3	1	2
x		2	
<hr/>			
1	8	7	
		₁	
6	2		
<hr/>			
<hr/>			
1	1		

Which has the larger answer?

$$A. 123 \times 51 = 6,273;$$

$$B. 312 \times 26 = 8,112. \text{ The larger answer is B.}$$