



# Chilli Challenges - 28/1/21

Answer at least one challenge question.

Self-assess your learning with the answers. No Peeking!

## Mild Green Chilli



Tommy has 8 boxes of cakes with 24 cakes in each box.

Eva has 4 boxes with 48 cakes in each box.

They have the same number of cakes.

## Hot Yellow Chilli

Here are three incorrect multiplications.

	T	O
	6	1
×		5
<hr/>		
	3	5

	T	O	
	7	4	
×		7	
<hr/>			
	4	9	8

	T	O	
	2	6	
×		4	
<hr/>			
	8	2	4

Correct the multiplications.

## Spicy Red Chilli

### Always, sometimes, never

- When multiplying a two-digit number by a one-digit number, the product has 3 digits.
- When multiplying a two-digit number by 8 the product is odd.
- When multiplying a two-digit number by 7 you need to exchange.

Prove it.

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## Answers

True

$$24 \times 8 = 48 \times 4$$

## Spicy Yellow Chilli

	T	O
	6	1
x		5
<hr/>		
3	0	5
<hr/>		
	3	

  

	T	O
	7	4
x		7
<hr/>		
5	1	8
<hr/>		
	2	

  

	T	O
	2	6
x		4
<hr/>		
1	0	4
<hr/>		
	2	

Sometimes:  $12 \times 2$  has only two-digits;  $23 \times 5$  has three digits.

Never: all multiples of 8 are even.

Sometimes: most two-digit numbers need exchanging, but not 10 or 11