

# Large multiplication - Rectangular method

example: 
$$\begin{array}{r} 22 \\ \times 53 \\ \hline \end{array}$$

1. Write your numbers in expanded form

$$\begin{array}{l} 22 = 20 + 2 \\ 53 = 50 + 3 \end{array}$$

2. Draw a rectangle

3. Write one of your numbers in expanded form across the top of the rectangle & the other down the side.

	20 + 2	
50 + 3		

4. multiply the outside of the rectangle & put the product on the inside

	20 + 2	
50 + 3	$50 \times 20 =$ 1000	$50 \times 2 =$ 100
	$20 \times 3 =$ 60	$3 \times 2 =$ 6

5. Add all the products together

$$1000 + 100 + 60 + 6 = 1,166$$