Maths

Year 4

Independent Task To solve problems based on quadrilaterals and triangles

Mr Critchlow

To Start

Can you complete the number grid by putting the numbers into the correct places. It's like a crossword but with numbers not letters.

										3
			4	2	0	3	5	8		
_										
	7									
	2									
	5									
	6					6	5	9		1
	9								R	
	2									>

3 DIGITS	4 DIGITS	
143	2619	
267	3580	
468	6034	
659	7129	
748	7519	
946	9256	
	5 DIGITS	6 DIGITS
	19076	210496
$\left(\right)$	20537	420358
	32706	725692
	41037	
	41853	
	58321	
C THE	84192	



To Start

Answers



2	0	5	3	7		6		7		
6		8		4	2	0	3	5	8	
1	4	3		8		3		1		
9		2			8	4	1	9	2	
	7	1	2	9			9		6	
	2		1		4	1	0	3	7	
3	5	8	0		1		7			
	6		4	6	8		6	5	9	
	9		9		5				4	
9	2	5	6		3	2	7	0	6	



Shape Properties

Can you complete the properties of these 2-D shapes? An example has been done for you.

				-
Draw it	Name it	Parallel sides	Features of sides	Angles/ Vertices
	square	2 sets of parallel sides	All 4 sides are equal	4 equal angles right angles
	oblong			
	trapezium			
			All 3 sides are equal	

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Draw it	Name it	Parallel sides	Features of sides	Angles/ Vertices
	Scalene triangle			
	parallelogram			
		none	2 of 3 sides are equal	

Quadrilateral investigation

How many different quadrilaterals can you make by joining 4 dots on the outside of a circle. When you create the shape, can you name it? Use straight lines only.



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Triangles investigation

How many different triangles can you make that have a single dot in the middle of them, using the dotty grids below?



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Challenge

Exploring shapes by folding

Take a piece of rectangular paper (A4 is best). How small can you make it by folding? How many different sorts of triangle can you produce by folding? Can you produce four identical triangles?





What is the quickest way to produce a square? Can you make other quadrilaterals by folding?