

Students are not limited to finding the difference between consecutive squares. See below:



16 - 4 = 12

The table below shows all the possible differences of two squares that can be made with square numbers from 1 to 100 (those made from square numbers from 1 to 36 are in bold).

What patterns can students spot in the numbers that are made?

	1	4	9	16	25	36	49	64	81	100
1										
4	3									
9	8	5								
16	15	12	7							
25	24	21	16	9						
36	35	32	27	20	11					
49	48	45	40	33	24	13				
64	63	60	55	48	39	28	15			
81	80	77	72	65	56	45	32	17		
100	99	96	91	84	75	64	51	36	19	

Can your students now construct any of the proofs that Matt and James do in the video?

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