Identification of Patterns in Square and Triangular Numbers

1. What is the difference between square numbers and triangular numbers?

2. Arrange the series 1, 4, 9, 16, 25,by a dot and arrange them in such a way that they make a square.

3. Complete the given pattern:

2 × 2, 4 × 4, 6 × 6, 8 × 8, _____, ____, ____, ____,

4. Complete the following pattern:



5. Complete the table for each sequence of matchsticks shapes. Use the pattern rule for finding the number of matchsticks needed for each shape including the 10th shape.

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Shape 1 Sh	ape 2 Shape 3	Shape 4 Shape 5
	1	Pattern Rule Number of
Shape	Number of	matchsticks = shape number
Number	matchsticks	x+
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		