Dots

Triangles

Here is a pattern of dots as triangles.



0 1 3 6

Note: the first triangle has no dots.

Write the number of dots and find the difference between each number. Continue the pattern for the next 4 triangles.

0	1	3	6				
							

difference:

What do you notice about the difference in the number of dots in each triangle?

Can you explain why?

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Dots

Squares

Here is a pattern of dots as squares.



0 1 4 9

Note: the first square has no dots.

Write the number of dots and find the difference between each number. Continue the pattern for the next 4 squares.

0	1	4	9				
							

difference:

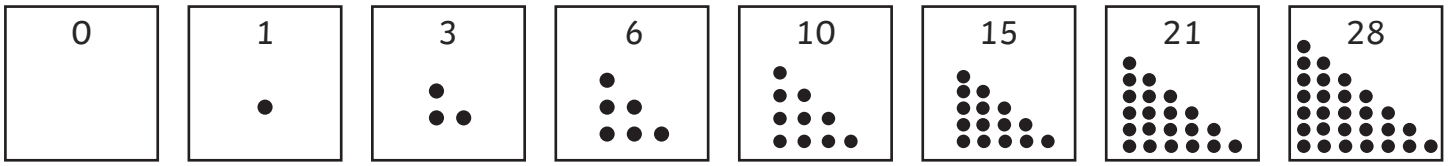
What do you notice about the difference in the number of dots in each square?

Can you explain why?

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Answers

Triangles



difference:

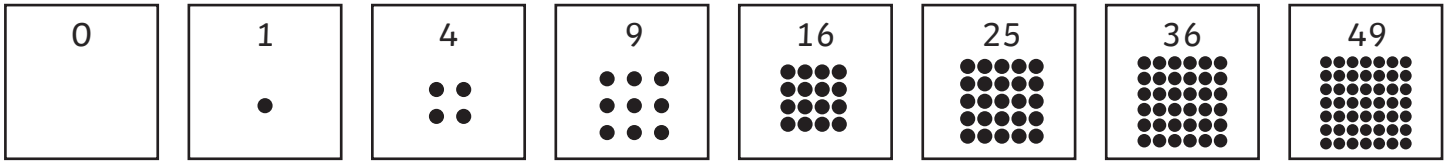
1	2	3	4	5	6	7

The difference is increased by 1 each time.

Each triangle has a new row of dots which increases by 1 each time.



Squares



difference:

1	3	5	7	9	11	13

The difference is increased by 2 each time.

Each square has a new row and column of dots which increases by 1 in each for every square (so 2 in all), and the corner dot (which makes the extra number of dots odd).



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