

Dots

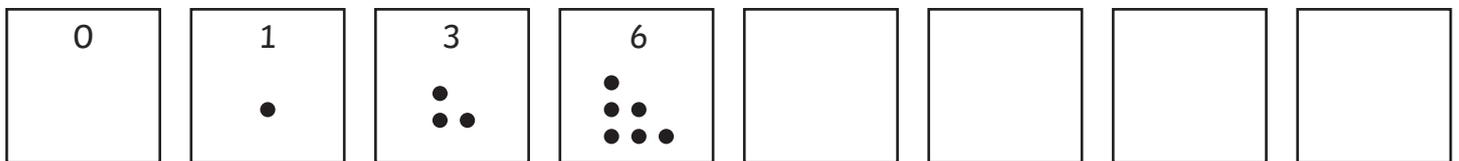
Triangles

Here is a pattern of dots as triangles.



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.



difference:

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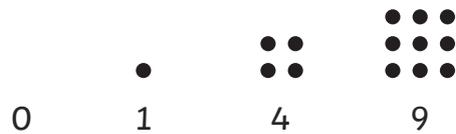
What do you notice about the difference in the number of dots in each triangle?

Can you explain why?

Dots

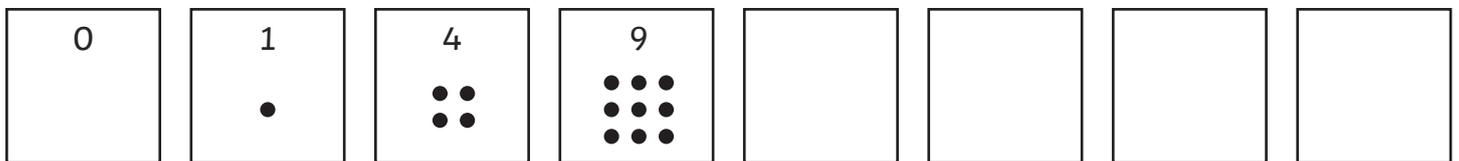
Squares

Here is a pattern of dots as squares.



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.



difference:

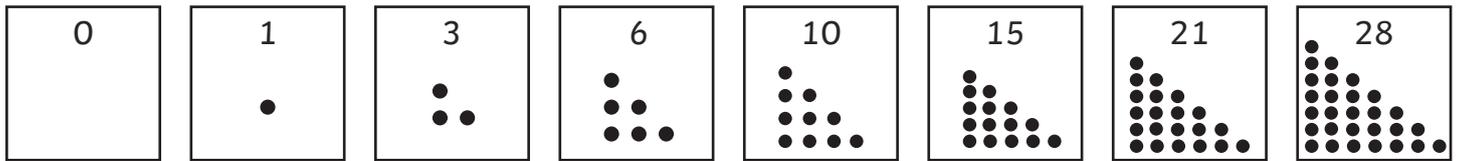
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What do you notice about the difference in the number of dots in each square?

Can you explain why?

Answers

Triangles



difference:

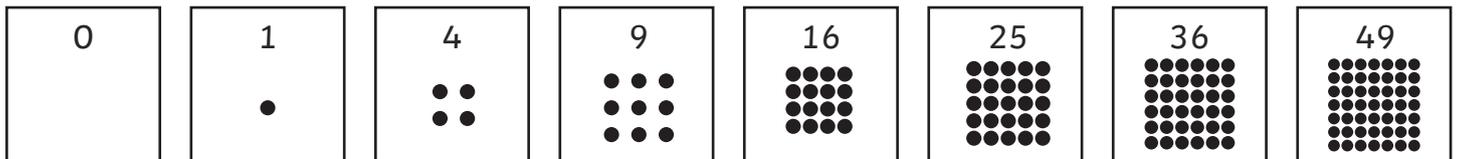


The difference is increased by 1 each time.

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



Squares



difference:



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).

