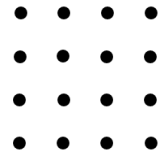


September 2018 Puzzle

In the figure to the right, the dots are equally spaced horizontally and vertically. How many different squares can be created by connecting four of the dots so that the dots are at the corners of each square?



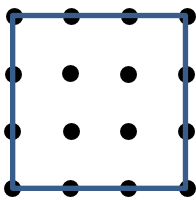
September 2018 Solution

Answer: 20

There are five types (sizes) of squares that can be formed as shown below:

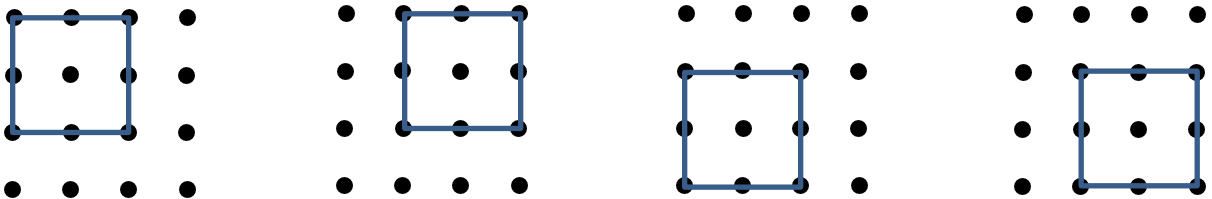
Type A:

1 of
this
type



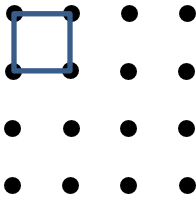
Type B:

4 of
this
type

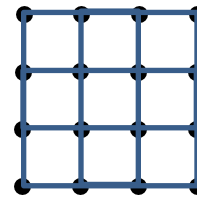


Type C:

9 of
this
type

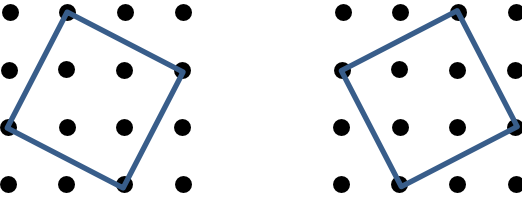


All 9 of type C can easily be seen in the figure to the right.



Type D:

2 of
this
type



Type E:

4 of
this
type

