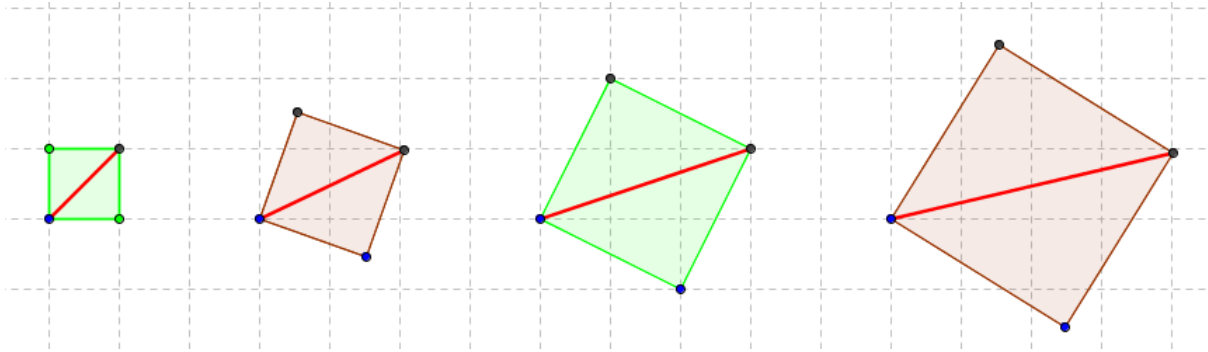


SQUARES FROM DIAGONALS

We worked systematically to find out a simple formula to share.



| Type of diagonal measurement times 2 | Do they make a square? | Type of diagonal measurement times 3 | Do they make a square? |
|--------------------------------------|------------------------|--------------------------------------|------------------------|
| 2x2 | yes | 3x2 | no |
| 2x3 | no | 3x3 | yes |
| 2x4 | yes | 3x4 | no |
| 2x5 | no | 3x5 | yes |
| 2x6 | yes | 3x6 | no |
| 2x7 | no | 3x7 | yes |
| 2x8 | yes | 3x8 | no |
| 2x9 | no | 3x9 | yes |
| 2x10 | yes | 3x10 | no |

As you can see from our table each type of diagonal line will only work if an odd or an even are put together. For example 3x3 will make a square but 3x4 wont as one of the numbers is even and the other is odd.

I hope you enjoyed are tutorial thank you NRICH

From Megan and Kit