Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**7.0 Expanding Squares HW**

On graph paper (on the back), create squares with dimensions 1x1, 2x2, 3x3, … up to 12x12.

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| 1. Fill in the table and answer the questions below.  |  |  | | --- | --- | | Dimensions of | # of | | Square | Tiles | | 1 x 1 | 1 | | 2 x 2 | 4 | | 3 x 3 | 9 | | 4 x 4 |  | | 5 x 5 |  | | 6 x 6 |  | | 7 x 7 |  | | 8 x 8 |  | | 9 x 9 |  | | 10 x 10 |  | | 11 x 11 |  | | 12 x 12 |  | | 1. Is there a pattern? What is the pattern? |

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| 1. Can you make a square with 84 tiles?   CLAIM (Yes or no)  EVIDENCE (Show your work)  REASONING (Explain your work) |
| 1. Can you make a square with 196 tiles?   CLAIM (Yes or no)  EVIDENCE (Show your work)  REASONING (Explain your work) |

<https://learnzillion.com/lesson_plans/467-identify-perfect-squares-and-perfect-cubes-by-building-and-observing-models?card=10104>

HW: 7.0 HW (handout)