***MFM2P – Using the Equations of the Painted Square*** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | **By doing a regression on graphing calculator…** |
| **# cubes with 3 faces painted** |  |

1. how many cubes will have 3 faces painted if the side length of the square is 16
2. if a square had 144 cubes with 3 faces painted, how big was the square?

|  |  |
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| **# cubes with 2 faces painted** |  |

1. how many cubes will have 2 faces painted if the side length of the square is 22?
2. how many cubes will have 2 faces painted if the side length of the square is 28?

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