

## Today's Schedule

- Seats
- Questionnaire
- Disclosure
- Remind
- Group Activity
- Video

## Staircase Towers

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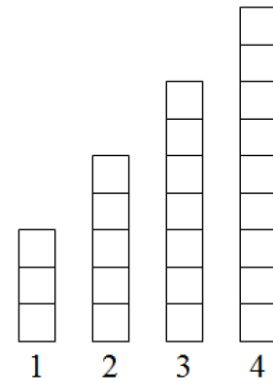
SM2

Below is a staircase tower that is made by starting with 3 cubes and adding two cubes to get each successive tower.

How many cubes will be in the 10<sup>th</sup> tower?

How many cubes will be in the n<sup>th</sup> tower?

How do you know?



\*Make a poster of your groups answers and thinking. Link the diagram to your rule or formula to determine the number of cubes in the n<sup>th</sup> tower. Be ready to explain your group's thinking to the class!

SM3H

For the following sequence of figures, assume the pattern continues to grow in the same manner. Describe what the  $n^{\text{th}}$  figure will look like and determine the number of blocks that would be needed for this figure with a rule or formula.

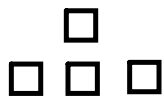


Figure 1

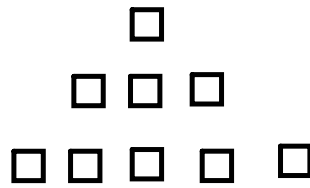


Figure 2

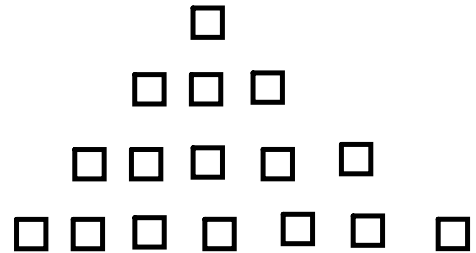


Figure 3

\*Make a poster of your groups answers and thinking. Link the diagram to your rule or formula to determine the number of cubes in the  $n^{\text{th}}$  tower. Be ready to explain your group's thinking to the class!