**Telling the Tale**

**Grade 8 (SOL 8.16)**

**Part I:**



|  |  |
| --- | --- |
| What do you notice? | What do you wonder? |
| Complete Structure 3 for Series 3. You may use linking cubes, create a drawing in the space provided, or use an online drawing tool, such as this [NCTM Drawing Tool](https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/). |



| How is the equation that represents Series 3 related to the equations representing Series 1 and Series 2? |  |
| --- | --- |
| What is the rate of change, or slope, of the equation that represents Series 3? How does it relate to the story?  |   |
| Assuming that the pattern for Roxy Boxy continued as she prepared boxes for transport, how would the equations representing Series 2 and Series 3 change if she had arrived to work to find the number of boxes shown below ? |  |
| Describe the set of Structures that Jack Prism might have built if his work could be represented by the equation y = 5x. How would this affect the equation for Series 3? |  |

**Part III:**



| How is the equation that represents Series 3 related to the equations representing Series 1 and Series 2? |  |
| --- | --- |
| What is the rate of change, or slope, of the equation that represents Series 3? How does it relate to the story?  |   |
| boxesAssuming that the pattern for Roxy Boxy continued as she prepared boxes for transport, how would the equations representing Series 2 and Series 3 change if she had arrived to work to find the number of boxes shown below ? |  |
| Describe the set of Structures that Jack Prism might have built if his work could be represented by the equation y = 5x. How would this affect the equation for Series 3? |  |

**Part III:**