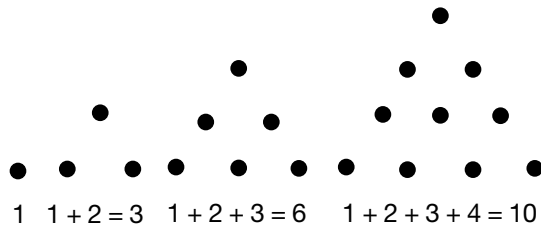


Name \_\_\_\_\_

# Geometric Numbers

This pattern of dots represents the first four triangular numbers: 1, 3, 6, and 10. They are called triangular numbers because they can be arranged in triangular shapes.



1. Draw the next two groups of dots in the pattern above. Then write the number sentences underneath your drawings to find the 5th and 6th triangular numbers.

\_\_\_\_\_

2. Is the 7th triangular number 27? Explain why or why not.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Describe how to use the pattern above to draw the dots for the 10th triangular number.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Find the 16th triangular number without drawing any dots. Explain how you found your answer.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_