Date: \_\_\_\_\_

## BLM 12-18

## **Chapter 12 Test**

For #1 to #5, select the best answer.

- Which of these polygons cannot be used to create a tessellation?
  A equilateral triangle B pentagon C regular octagon D trapezoid
- 2. How many different polygons were used to create this tessellation?



to tile the plane? Explain.



**7.** Can the following shape be used to tile the plane? Explain.



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**8.** Fill the plane using an equilateral triangle with side length of 3 cm.



12 cm

**9.** Create a tessellation for each pair of shapes that follow.



## **Extended Response**

- **10.** Create an Escher-style tessellation using a square and rotations.
- 11. Ceramic tiles will be used to cover the floor of the school's main entrance. Design a tessellation using four different polygons. The main entrance is 5 m by 6 m. Describe the size and colour of each polygon, and provide a pattern for the installers to follow.