

12.2

# Constructing Tessellations Using Translations and Reflections

MathLinks 8, pages 452–456

### Key Ideas Review

For #1 to #4, unscramble the letters to form a word that correctly completes the statement.

1. \_\_\_\_\_ can be made with two or more \_\_\_\_\_.

LNSETSETLOIAS GNYOLPSO

2. The \_\_\_\_\_ angles that meet must equal  $360^\circ$ .

TROINERI

3. \_\_\_\_\_ and \_\_\_\_\_ are common transformations.

OSLNAASTNIRT RSNETFEOLIC

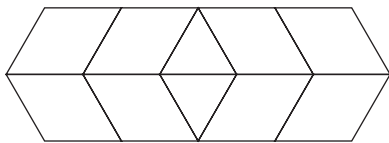
4. The area of a \_\_\_\_\_ is the same after it is \_\_\_\_\_.

LTEI MEDASRFONRT

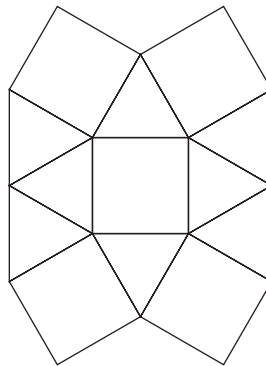
### Practise and Apply

5. What two polygons are used to form each tessellation?

a)



b)

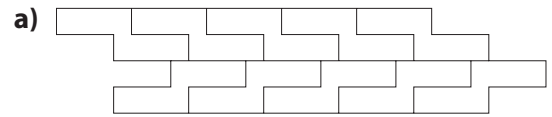


Name: \_\_\_\_\_

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

6. Use two or more polygons to create a tessellation.

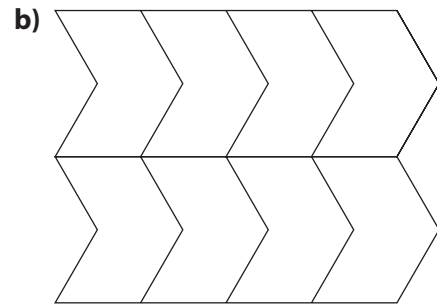
8. What transformations are used to create each design below?



7. Levi wanted to redo his patio. He decided to use the letter "L" to tessellate a pattern.



a) Show a design that Levi might use.



b) Name at least four other letters that can tessellate the plane.

9. Create a design by using both translations and reflections.

c) Draw a design using one of the letters you listed in b).