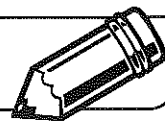


LESSON
3•10

Geometry Template Problems

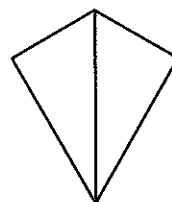


Record your solutions on *Math Masters*, page 97. Include the problem numbers.

Challenging

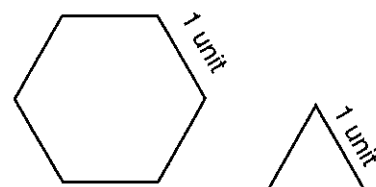
Examples:

- Without using a ruler to measure, enlarge the octagon on the Geometry Template to approximately 2 times its size and 3 times its size. (6 points for the double-size octagon and 9 points for the triple-size octagon)
- Using the triangles on the template, draw three different **kites**. Describe your procedure. Remember, a kite has two pairs of equal sides, but not four equal sides. The equal sides must share an endpoint. (3 points each)



- Describe how you would draw the largest circle possible with the Geometry Template, without tracing any of the circles on the template. Draw this circle if you have a sheet of paper that is large enough. (15 points)
- Use your template to draw at least four **parallel lines**. Describe your procedure. (10 points)

- Each side of the hexagon is 1 unit long. Each side of the equilateral triangle is 1 unit long. Use at least one hexagon and at least one equilateral triangle to make each of the following:

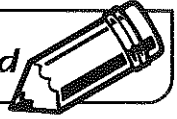


- ◆ An equilateral triangle with sides 3 units long
- ◆ An equilateral triangle with sides 4 units long
- ◆ An equilateral triangle with sides 5 units long
(10 points each)

- Draw as many polygons as you can inside each box on *Math Masters*, page 97. The polygons must not overlap. None of the polygons may be used more than once. (1 point for each polygon used)

LESSON
3•10

Geometry Template Problems *continued*



Solutions

6.

