LESSON 6·1   # Diagonals of Polygons

1. Use the information from the polygons on *Math Journal 1,* page 128 to fill in the first three columns. Talk about the patterns you see with a partner.

number of points	3	4	5	6	7	8
number of line segments						

2. Can you guess the number of line segments in a 6-sided figure?
   _____ line segments

3. Check your guess. Label 6 points.
   Draw line segments between
   each pair of points. How many line
   segments did you draw?
   Fill in the table.

4. Try it with 7 points. Try it with 8 points.