Name: _____ Date: _____

Triangle search

Use properties and sizes to compare and classify triangles

You will need:
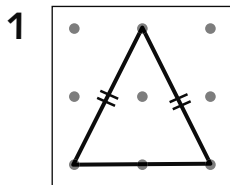- scissors
- ruler

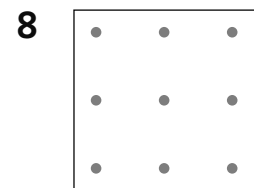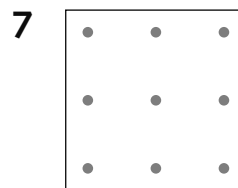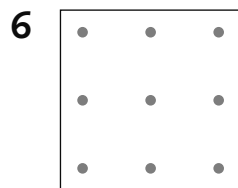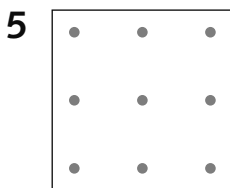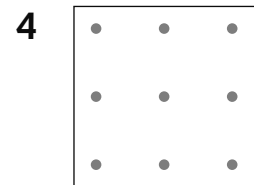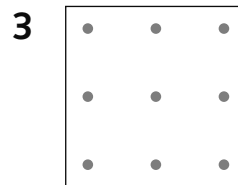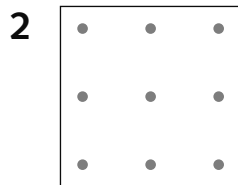**Challenges 1, 2, 3**

Chris said, "You can make eight different triangles on a 3 x 3 pin board."

Is this true? Investigate.

For each triangle you draw, write its name and mark any equal sides as shown for triangle **1**.

1

isosceles

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

Challenges 2, 3

1 Write the numbers of your triangles that have:

   a a right angle   _____

   b one line of symmetry   _____

2 Which type of triangle cannot
be made on a pin board?   _____

Challenge 3

Cut out the eight triangles at the side of the sheet.
Use all eight triangles to make:

1 a right-angled isosceles triangle   **2** an octagon

1 Using four of the triangles, discuss how they will fit
edge-to-edge to make:
a a square   **b** a rectangle   **c** an isosceles triangle

2 Use six of the triangles to make a pentagon and
then a hexagon.