

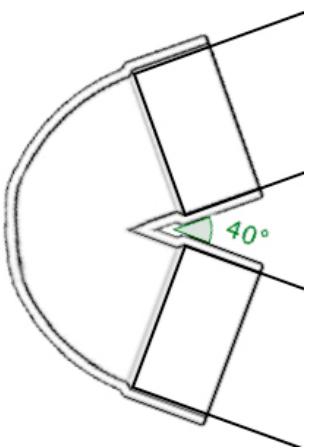
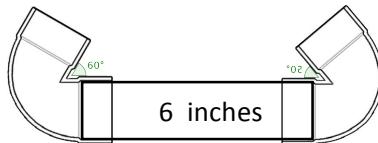
**2.1.1 How many triangles?**

Louisa is curious about how many different triangles she could make if she starts with some specific pieces.

With a partner, try the following investigations. Each partner should start with the same pieces, in the same order. Then try to make as many different triangles as you can. Try to align the pipe in the fitting as shown to the right.

1. 60° elbow, 6 inch pipe, 50° elbow

Sketches:



2. 3.4 inch pipe, 100° elbow, 5.2 inch pipe (in that order)

Sketches:

3. 40° elbow, 5.9 inch pipe, 3.6 inch pipe (in that order)

Sketches:

4. 7.2 inch pipe, 3.4 inch pipe, 5.2 inch pipe (in any order)

Sketches: