Lesson 3: Drawing Triangles

Reference: Math Makes Sense Text, pgs 209-213

1. Use a ruler and protractor. Draw each triangle.

   a) a right isosceles triangle **b)** a right scalene triangle **c)** an acute isosceles triangle

   d) an acute scalene triangle **e)** an obtuse isosceles triangle **f)** an obtuse scalene triangle

2. Why is it **not** possible to draw a right equilateral triangle or an obtuse equilateral triangle? Explain using words and pictures.

3. **a)** Draw 3 different triangles with two 50° angles.

   b) How are the triangles the same? How are they different?

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   _____

   _____

   c) What kind of triangles did you make? Give 2 different names.

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4. **a)** Draw a triangle that has one 70° angle and one 50° angle.

   b) What is the measure of the third angle?

   c) What kind of triangle did you make? How do you know?

   d) What other name can you give the triangle?

5. Draw a triangle that has one 100° angle and one 60° angle.
   What kind of triangle did you make? Give two answers.

6. Is it possible to draw ΔPQR with these measures? Explain.
   - PQ = 5.6 cm
   - PR = 4 cm
   - QR = 6 cm