

### 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  $50^\circ$  angles.
  - b) How are the triangles the same? How are they different?  

---

---

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

---
  
4.
  - a) Draw a triangle that has one  $70^\circ$  angle and one  $50^\circ$  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  $100^\circ$  angle and one  $60^\circ$  angle. What kind of triangle did you make? Give two answers.
  
6. Is it possible to draw  $\triangle PQR$  with these measures? Explain.
  - $PQ = 5.6$  cm
  - $PR = 4$  cm
  - $QR = 6$  cm