

Lesson 4: Drawing Angles Name: _____

Use separate piece of paper if needed.

1. Use a ruler and a protractor. Construct an angle with each measure.

- a) 15° b) 105° c) 75° d) 165°

2. Use a ruler and a protractor. Construct an angle with each measure.

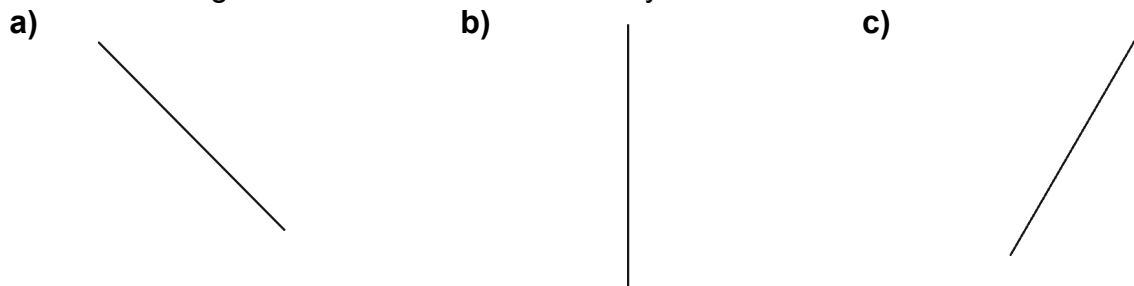
- a) 345° b) 255° c) 285° d) 195°

3. Compare the angles in questions 1 and 2. What do you notice? Explain.

4. a) Without using a protractor, draw a 90° angle. How can you use this angle to draw a 270° angle?
b) Without using a protractor, draw a 180° angle. How can you use this to draw a 90° angle?

c) How can you use the angles in part b to make a 45° angle? How can you use the angles to make a 135° angle? Show work and explain.

5. Use a ruler and a protractor. Using each line segment as one arm, draw an 80° angle. Label each angle with its measure. How did you know which scale to use each time?



6. Draw an acute angle. Without using a protractor, draw an angle that is 180° greater than the angle you drew. Measure the angle with a protractor to check. Explain how you drew the angle.