

Grade 7 Unit 6

Lesson 14 Anchor Problem 2

Unique Triangles

Set 1

Lengths:

4 inches

6 inches

7 inches

Draw a triangle to match these dimensions. Compare to your classmates' drawings.

What do you notice? What do you wonder?

Set 2

Lengths:

4 inches

9 inches

4 inches

Draw a triangle to match these dimensions. Compare to your classmates' drawings.

What do you notice? What do you wonder?

Set 3

Angle Measures:

30°

40°

100°

Draw a triangle to match these dimensions. Compare to your classmates' drawings.

What do you notice? What do you wonder?

Set 4

Angle Measures:

30°

60°

90°

Draw a triangle to match these dimensions. Compare to your classmates' drawings.

What do you notice? What do you wonder?

Set 5

Side AB = 5 inches

Side AC = 5 inches

Side BC = 8 inches

Draw a triangle to match these dimensions. Compare to your classmates' drawings.

What do you notice? What do you wonder?

Set 6

Angle Measures:

20°

20°

140°

Draw a triangle to match these dimensions. Compare to your classmates' drawings.

What do you notice? What do you wonder?

Class Table

Set of Measures	What happened?	How many unique triangles?	Why?
Set 1: 4, 6, 7 inches			
Set 2: 4, 9, 4 inches			
Set 3: 30°, 40°, 100°			
Set 4: 30°, 60°, 90°			
Set 5: 5, 5, 8 inches			
Set 6: 20°, 20°, 140°			