## Unit 2 Lesson 11: Side-Side-Angle (Sometimes) Congruence

### 1 Notice and Wonder: Congruence Fail (Warm up)

#### Images for Launch



#### Student Task Statement

What do you notice? What do you wonder?

In triangles $GBD$ and $KHI$:

* Angle $GBD$ is congruent to angle $KHI$.
* Segment $BD$ is congruent to segment $HI$.
* Segment $DG$ is congruent to segment $IK$.

### 2 Dare to Be (Even More) Different (Optional)

#### Student Task Statement



Copy these segments and use them to make a triangle using the given angle so that the given angle is *not* between the 2 given sides. Draw your triangle on tracing paper. Try to make your triangle different from the triangles drawn by the other people in your group.

### 3 Ambiguously Ambiguous? (Optional)

#### Student Task Statement

Your teacher will give you some sets of information.

* For each set of information, make a triangle using that information.
* If you think you can make more than one triangle, make more than one triangle.
* If you think you can’t make any triangle, note that.

When you are confident they are accurate, create a visual display.

#### Images for Activity Synthesis

Unique!



Unique!



Unique!



Not unique!





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