## Unit 1 Lesson 7: No Bending or Stretching

### 1 Measuring Segments (Warm up)

#### Student Task Statement

For each question, the unit is represented by the large tick marks with whole numbers.

1. Find the length of this segment to the nearest $\frac{1}{8}$ of a unit.
* 
1. Find the length of this segment to the nearest 0.1 of a unit.
* 
1. Estimate the length of this segment to the nearest $\frac{1}{8}$ of a unit.
* 
1. Estimate the length of the segment in the prior question to the nearest 0.1 of a unit.

### 2 Sides and Angles

#### Student Task Statement

1. Translate Polygon $A$ so point $P$ goes to point $Q$. In the image, write the length of each side, in grid units, next to the side.
* 
1. Rotate Triangle $B$ 90 degrees clockwise using $R$ as the center of rotation. In the image, write the measure of each angle in its interior.
* 
*
1. Reflect Pentagon $C$ across line $ℓ$.
	1. In the image, write the length of each side, in grid units, next to the side. You may need to make your own ruler with tracing paper or a blank index card.
	2. In the image, write the measure of each angle in the interior.
* 

#### Activity Synthesis



### 3 Which One?

#### Student Task Statement

Here is a grid showing triangle $ABC$ and two other triangles.



You can use a **rigid transformation** to take triangle $ABC$ to *one* of the other triangles.

1. Which one? Explain how you know.
2. Describe a rigid transformation that takes $ABC$ to the triangle you selected.



© CC BY Open Up Resources. Adaptations CC BY IM.