## Unit 7 Lesson 8: Sort Triangles

### WU Estimation Exploration: Angle Measure (Warm up)

#### Student Task Statement

What is the measure of the angle?



Record an estimate that is:

|  |  |  |
| --- | --- | --- |
| too low | about right | too high |
| $$ | $$ | $$ |

### 1 The Right Fit

#### Student Task Statement

1. Find a triangle card that fits in each space on the grid.
2. If you don’t think it is possible to find a triangle that fits certain criteria, explain why not.

|  | all three side lengths are different | exactly two of the side lengths are the same | all three side lengths are the same |
| --- | --- | --- | --- |
| has a 90 degree angle |  |  |  |
| has an angle that is greater than 90 degrees |  |  |  |
| all three angles are less than 90 degrees |  |  |  |

Explanations:

### 2 All, Some, None

#### Student Task Statement

1. Sort the triangle cards from the previous activity in a way that makes sense to you. Describe how you sorted the cards.
2. Now sort out the triangles with a 90 degree angle. For these triangles, write statements about each category.
* All of the triangles with a 90 degree angle...
* Some of the triangles with a 90 degree angle...
* None of the triangles with a 90 degree angle...



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