Name

Lesson 11: Proofs Day 2

Warm Up

Given the diagram below:

Prove: $m \angle w + m \angle x + m \angle z = 180^{\circ}$.



Make a plan:

(Hint – Think to yourself, "what geometric facts are relevant to the diagram?") SHOW:





Work Time

1. Given the diagram below:

Prove that $m \angle w = m \angle y + m \angle z$.



Make a plan:

(Hint - Think to yourself, "what geometric facts are relevant to the diagram?") SHOW:

STATEMENT	REASON



2. Given the diagram below:

Make a plan:

(Hint – Think to yourself, "what geometric facts are relevant to the diagram?") SHOW:





STATEMENT	REASON



3. In the diagram below, prove that $m \angle y + m \angle z = m \angle w + m \angle x$.

(Hint (You will need to write in a label in the diagram that is not labeled yet for this proof.)

SHOW:



STATEMENT	REASON