

6. The adjacent angles shown below are supplementary. Find the value of *x*.



7. Find the supplementary angle to an angle that is 128.9°. Explain your answer.

8. Higher Order Thinking In the diagram, $m \ge 1 = (125 - y)^\circ$, $m \ge 2 = 24^\circ$, and $m \ge 3 = (x + 46)^\circ$. Solve for x and y and find $m \ge 1$ and $m \ge 3$. Explain how you found the measure of each angle and the value of each variable.



Assessment Practice

9. Cooper incorrectly claims $m \angle b = 125^{\circ}$ in the diagram shown at the right.

PART A

Find $m \angle b$. Explain your answer.



PART B

What mistake did Cooper likely make?

