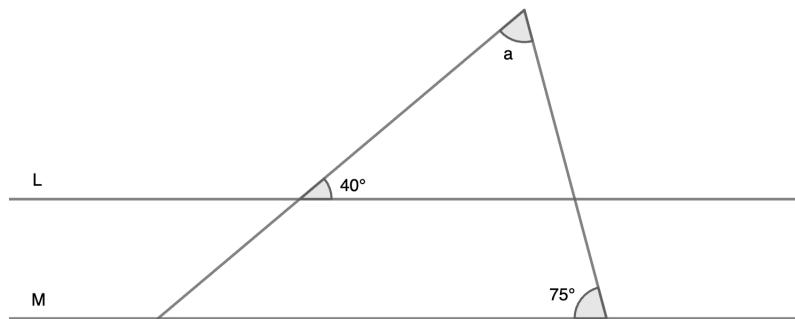


In the figure below,  $L \parallel M$ . Find the measure of  $\angle a$ .<sup>1</sup>



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<sup>1</sup>Akita Prefecture

## Solution

*Answer :* 65°

Proof: Since corresponding angles are congruent, we can set up the equation:  $\angle a + 40^\circ + 75^\circ = 180^\circ$ . Solving for  $a$ , we get  $\angle a = 65^\circ$ .