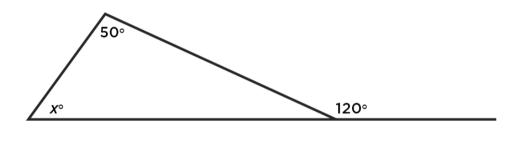


AMC Challenge Junior: Years 7–8 Practice Problem

## J1: Triangles

## **Solutions**

In the diagram the value of x is



**a.** 80

**b.** 70

**c.** 60

**d.** 50

**e.** 40

## Alternative 1.

The three interior angles of the triangle are  $x^{\circ}$ , 50° and 60°. These add to 180°, so x + 110 = 180 and x = 70, Hence (b).

## Alternative 2.

Using the exterior angle formula, x + 50 = 120, so that x = 70, Hence (b).