

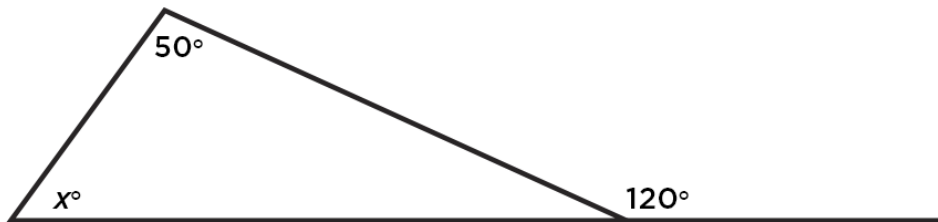


AUSTRALIAN MATHS TRUST

AMC Challenge
Junior: Years 7–8
Practice Problem

J1: Triangles

In the diagram the value of x is



- a. 80 b. 70 c. 60 d. 50 e. 40

Solutions

Alternative 1

The three interior angles of the triangle are x° , 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).