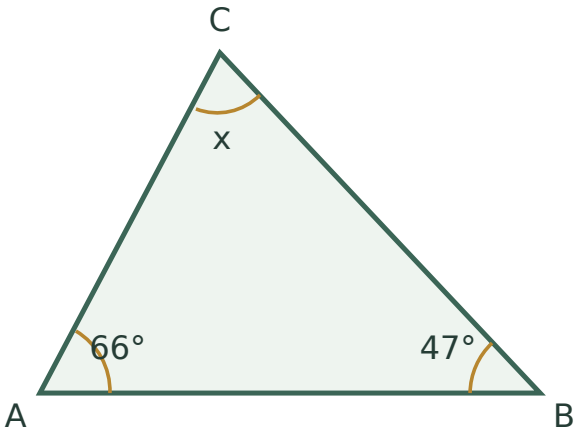
Practice worksheet | Angles and polygons

Triangle angle sums

Name: _____ Date: _____

6 questions | 15 marks

1. Two interior angles of a triangle are 66° and 47°. Find the third. [2 marks]



Sketch not to scale

2. An isosceles triangle has vertex angle 42°. Find each base angle. [2 marks]

3. A triangle contains a right angle and an angle of 58°. Find the third angle. [2 marks]

4. A triangle has an exterior angle of 118°. One of the two non-adjacent interior angles is 43°. [4 marks]

(a) Find the interior angle next to the exterior angle. [2 marks]

(b) Find the other non-adjacent interior angle. [2 marks]

5. Can a triangle have angles 90°, 60° and 40°? Give a numerical reason. [2 marks]

6. An isosceles triangle has vertex angle 70°. Each base angle is $(2x+5)^\circ$. Find x. [3 marks]