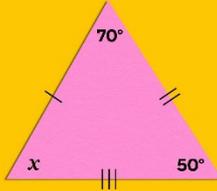# SOLUTIONS

Triangles

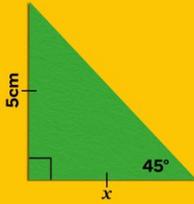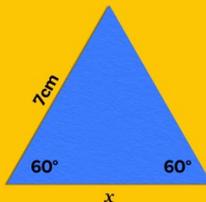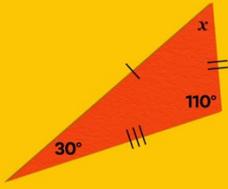|	
Solve for x What kind of triangle is it? 70°, x, 50°	This is a scalene triangle because: • None of the sides are equal This is also an acute triangle because: • All of the angles in the triangle are <u>less than</u> 90° each (<90°) To solve for x : The angle sum of a triangle is 180°. 70°+50°=120° Therefore, to find the missing angle we can subtract 120° from 180° 180° - 120° = 60° x =60°
Solve for x What kind of triangle is it? 5cm, 45°, x	This is an isosceles triangle because: • It has 2 equal sides and 1 longer side • It has a right angle To solve for x : It is the same as 5cm, x =5cm
Solve for x What kind of triangle is it? 7cm, 60°, 60°, x	This is an equilateral triangle because: • All sides are equal • All angles are equal To solve for x : It is the same as 7cm, x =7cm.

Solve for x
What kind of triangle is it?

This is a scalene triangle because:
- None of the sides are equal
- None of the angles are equal

This is also an obtuse triangle because:
- One of the angles in the triangle is <u>more than</u> 90° (>90°).

To solve for x :
The angle sum of a triangle is 180°.
110° + 30° = 140°

Therefore, to find the missing angle we can subtract 140° from 180°
180° - 140° = 40°
x = 40°