



Instructions: Work out the shape maths and use the answer bank to check. Read the Did you know? box. Number the 4 steps in order, tick True or False, match each word to its meaning, then write short answers.

1. Shape maths

Answer bank: **15 cm** **30°** **50°** **60°**

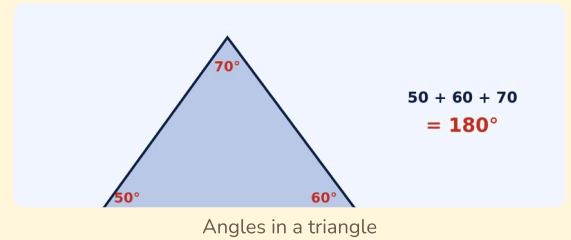
Question	Answer
$180^\circ - 90^\circ - 40^\circ =$	
Each angle of an equilateral triangle	
$180^\circ - 100^\circ - 50^\circ =$	
Perimeter of an equilateral triangle with 5 cm sides	

About this topic

A triangle is a flat shape with three straight sides and three angles. We can sort triangles by their sides. An equilateral triangle has all three sides equal. An isosceles triangle has two equal sides. A scalene triangle has no equal sides. Small dashes on sides show which ones are equal.

Did you know?

- The word 'isosceles' comes from Greek words meaning 'equal legs'.
- Roof trusses use triangles because they do not wobble.
- Some road signs are triangles to catch your eye.



2. Put the steps in order

Write 1 to 4 in the boxes (1 = first).

- ☐ Name by sides: Equilateral, isosceles or scalene
- ☐ Check the sum: Make sure the angles add up to 180°
- ☐ Look at sides: Check for equal-side marks
- ☐ Name by angles: Acute, right or obtuse-angled

3. True or false?

An equilateral triangle has three equal sides.	☐ True	☐ False
A triangle can have two right angles.	☐ True	☐ False
A scalene triangle has no equal sides.	☐ True	☐ False
The angles in a triangle add up to 360° .	☐ True	☐ False

4. Match up

Write the letter of the right meaning in the box.

Equilateral	A. A triangle with no equal sides.
Isosceles	B. A triangle with three equal sides and three 60° angles.
Scalene	C. A triangle with one angle of 90° .
Right-angled triangle	D. A triangle with two equal sides and two equal angles.

5. Short answers

- How many sides and angles does a triangle have?

- Name the triangle with two equal sides.

- What is special about a right-angled triangle?

- Explain in your own words: How do you name a triangle by its sides?

- Stretch: Why can a triangle not have two right angles?

