

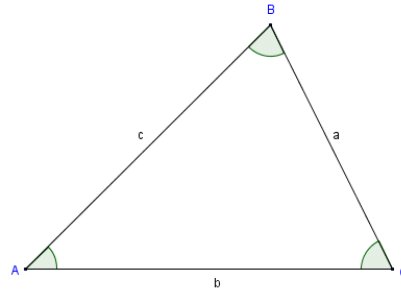
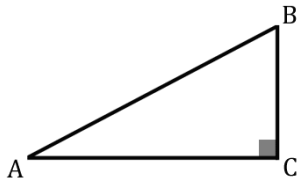
Possible Triangles!

Tick ✓ the correct box.

	Statement	Always	Sometimes	Never
1	A triangle has three sides.	✓		
2	A triangle has 4 corners			✓
3	A triangle has 3 equal sides.		✓	
4	A triangle has two equal sides.		✓	
5	A triangle has two acute angles.	✓		
6	A triangle has two obtuse angles.			✓
7	A triangle has two parallel lines.			✓
9	A triangle has one right angles.		✓	
10.	A triangle has two right angles.			✓

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- a) Choose one or two of the statements and draw triangles to prove your answer.

E.g. Number 6: A triangle has two obtuse angles.



A triangle can only have one obtuse angle (greater than 90°) and two acute angles. Since a triangle's angles must sum to 180° it cannot have more than one obtuse angle.

- b) Do you know more facts about triangles?

Write them down in a list and share them with us.

E.g.

- Triangles are polygons. (Polygons are 2-D shapes made of straight lines/sides).
- The three internal angles of a triangle always add to 180 degrees.
- An equilateral triangle has three sides of equal length and three equal angles.
- An isosceles triangle has two sides of equal length and two equal angles.
- A scalene triangle has no sides of equal length and no equal angles.
- A right-angle triangle has one angle that is 90 degrees.
- The longest side of a right-angle triangle is called the hypotenuse. It is always found opposite the right angle.
- Triangle shapes are often used in construction because of their great strength.
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