

TARGET To compare and classify triangles.

TYPES OF TRIANGLE



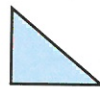
equilateral

all sides equal
all angles equal



isosceles

2 sides equal
2 angles equal



right-angled

one 90° angle

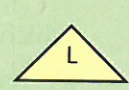
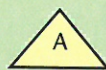


scalene

no sides equal
no angles equal

A

Write the name of each triangle.



B

Which triangle is the odd one out?
Give a reason for your answer.

1



2



3



4

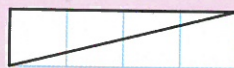


- 5 Use grids of 4 squares. Draw and label:
- 3 different right-angled triangles
 - 2 different scalene triangles
 - 4 different isosceles triangles.

Examples



isosceles triangle



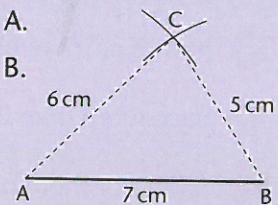
right-angled triangle

C

Example

Construct a triangle with sides 7 cm, 6 cm and 5 cm using ruler and a pair of compasses.

- 1 Draw 7 cm line AB.
- 2 Draw arc 6 cm from A.
- 3 Draw arc 5 cm from B.
- 4 Join C, where arcs cross, to A and B.



Use the above method to construct the following triangles. Label each triangle.

- 1 Sides 4.6 cm, 4.6 cm, 4.6 cm
- 2 Sides 5.2 cm, 3.9 cm, 3.9 cm
- 3 Sides 6.4 cm, 5.7 cm, 2.8 cm
- 4 Sides 7 cm, 5.6 cm, 4.2 cm
- 5 Sides 5.5 cm, 5.5 cm, 3.3 cm
- 6 Sides 6.3 cm, 6.3 cm, 6.3 cm
- 7 Sides 6.5 cm, 6 cm, 2.5 cm
- 8 Sides 5.8 cm, 4.4 cm, 3.7 cm