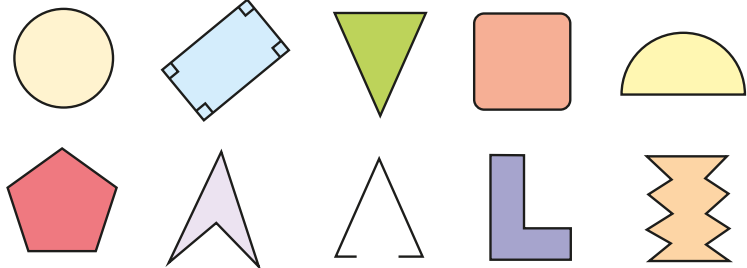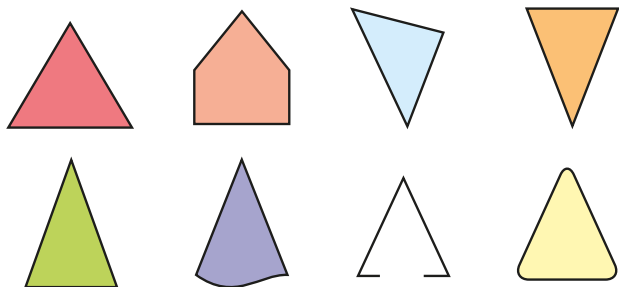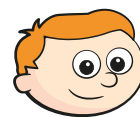**1** Here are some shapes.

a) Which shapes are polygons?

b) Talk to a partner about why the other shapes are not polygons.

c) Write a definition of a polygon.

Compare your definition with a partner's.

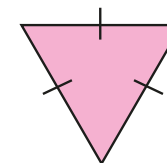**2** Which shapes are triangles?

For any shapes that are not triangles, talk to a partner about why somebody might think they are triangles.

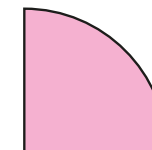**3** Ron is classifying triangles.

This is an upside down triangle.

a) Ron is incorrect.

Explain why.

b) What type of triangle is it?

4 Annie is identifying shapes.

This shape has 3 sides, so it is a triangle.

Do you agree with Annie?

Explain your answer.

5 Match the type of triangle to the definition.

scalene	equilateral	isosceles

2 sides and 2 angles equal	no sides or angles equal	all sides and all angles equal

3 Ron is classifying triangles.

This is an upside down triangle.

a) Ron is incorrect.

Explain why.

b) What type of triangle is it?

4 Annie is identifying shapes.

This shape has 3 sides, so it is a triangle.

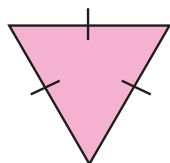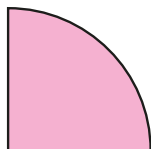Do you agree with Annie?

Explain your answer.

5 Match the type of triangle to the definition.

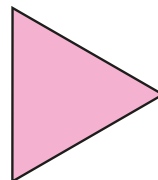| scalene	equilateral	isosceles

2 sides and 2 angles equal	no sides or angles equal	all sides and all angles equal

6 Label each triangle as either equilateral, isosceles or scalene.

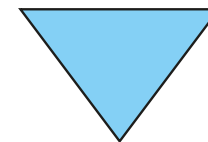You will need to measure the side lengths.

A   B   C

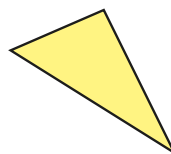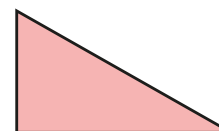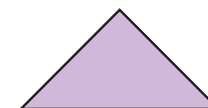D   E   F

7 Draw each triangle on a squared grid.

a) isosceles   **b)** right-angled   **c)** scalene

Which triangle was hardest to draw?

8 The diagram shows an equilateral triangle and a square.

The perimeter of the square is 100 cm.

Work out the perimeter of the compound shape.