

Triangles



1 Here are some shapes.



- Tick the polygons.
- Talk to a partner about the shapes you have not ticked. Why are they not polygons?
- Write a definition of a polygon.

Compare your definition with a partner's.

2 Tick the triangles.



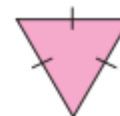
For any shapes you have not ticked, talk to a partner about why somebody might think they are triangles.



3 Ron is classifying triangles.



This is an upside down triangle.



- Ron is incorrect. Explain why.

- 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

2 sides and
2 angles equal

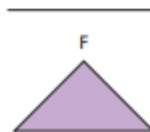
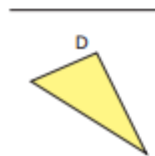
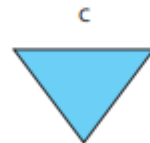
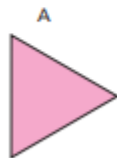
equilateral

no sides or
angles equal

isosceles

all sides and
all angles equal

- 6 Label each triangle as either equilateral, isosceles or scalene.
You will need to measure the side lengths.

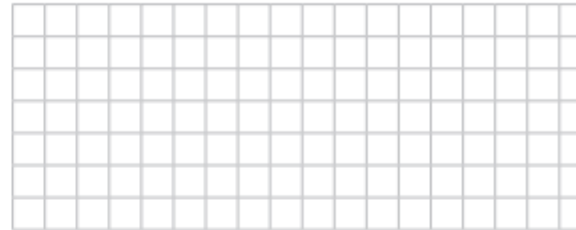


- 7 Draw each triangle in the grid.

a) isosceles

b) right-angled

c) scalene

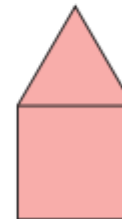


Which triangle was hardest to draw?

- 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.



perimeter = cm

Answers below

Triangles

1 Here are some shapes.



a) Tick the polygons.

b) Talk to a partner about the shapes you have not ticked.
Why are they not polygons?

c) Write a definition of a polygon.

A closed shape made up of straight
sides

Compare your definition with a partner's.

2 Tick the triangles.



For any shapes you have not ticked, 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.

A triangle cannot be upside down.

b) What type of triangle is it?

equilateral

4 Annie is identifying shapes.



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



Do you agree with Annie? No

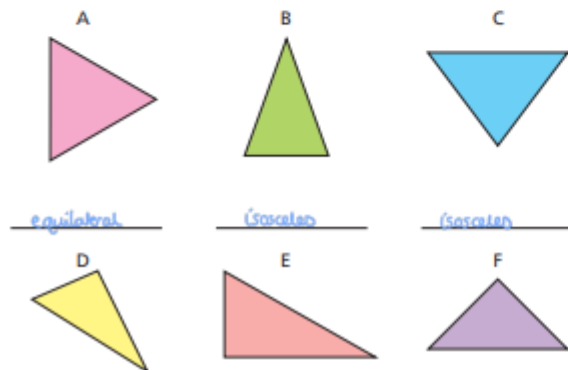
Explain your answer.

A triangle has three straight sides this shape
does not

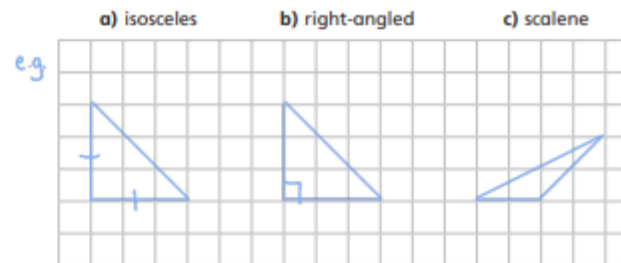
- 5 Match the type of triangle to the definition.



- 6 Label each triangle as either equilateral, isosceles or scalene.
You will need to measure the side lengths.

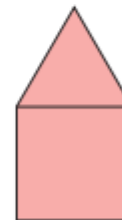


- 7 Draw each triangle in the grid.



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.



perimeter = 125 cm