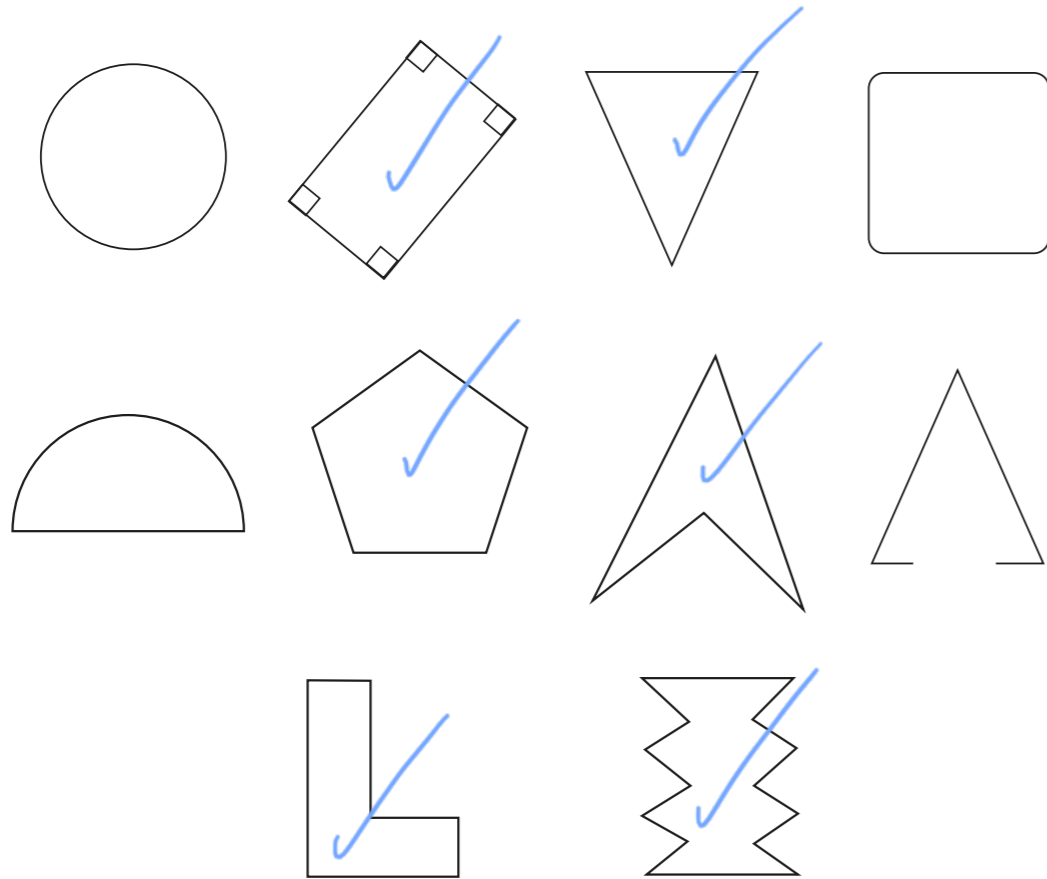


Identify polygons up to a decagon

1 Here are some shapes.



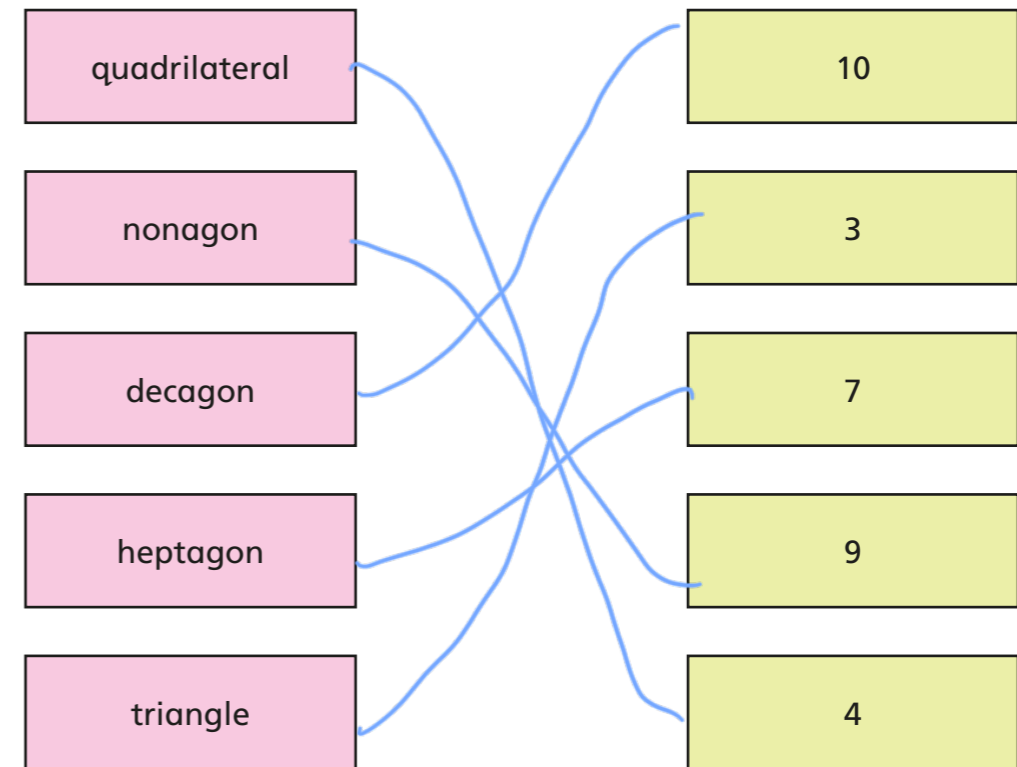
a) Tick the polygons.

b) For each of the shapes you have **not** ticked, discuss with a partner why they are not polygons.

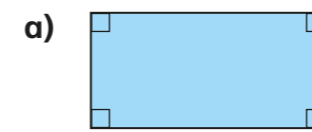
c) Write a definition of a polygon in your own words.

Various answers.

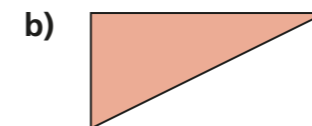
2 Match the shape to the number of sides.



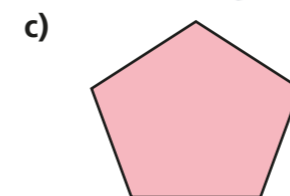
3 Write the name of each polygon.



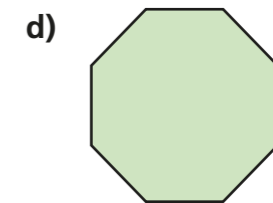
rectangle



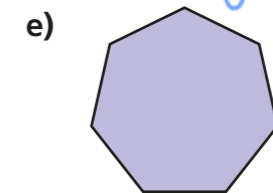
triangle



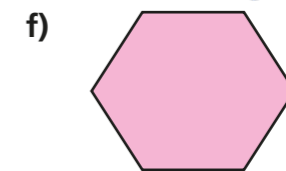
pentagon



octagon



heptagon

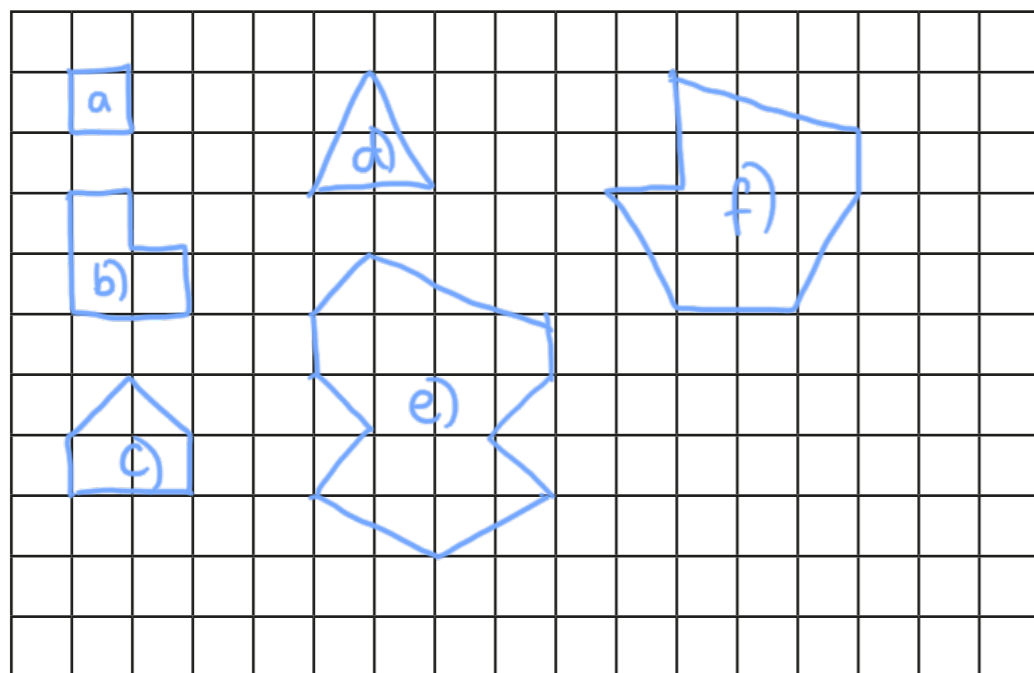


hexagon

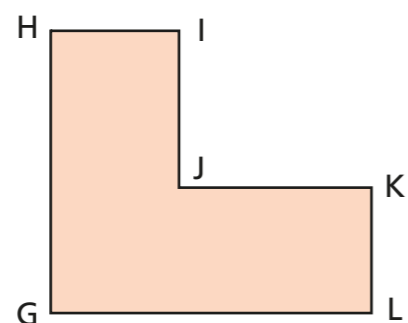
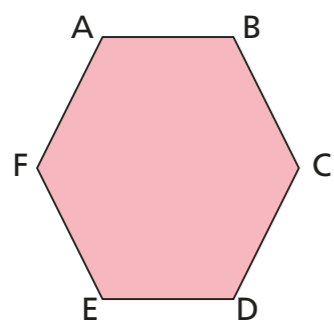
4 Draw and label each shape on the grid.

- a) square c) pentagon e) decagon
 b) hexagon d) triangle f) heptagon

e.g.



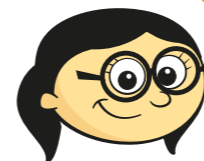
5 ABCDEF is a regular hexagon.
 GHIJKL is an irregular hexagon.



- a) What is the same and what is different about the hexagons?
 b) Write your own definition of a regular polygon.

All sides and angles are equal.

6



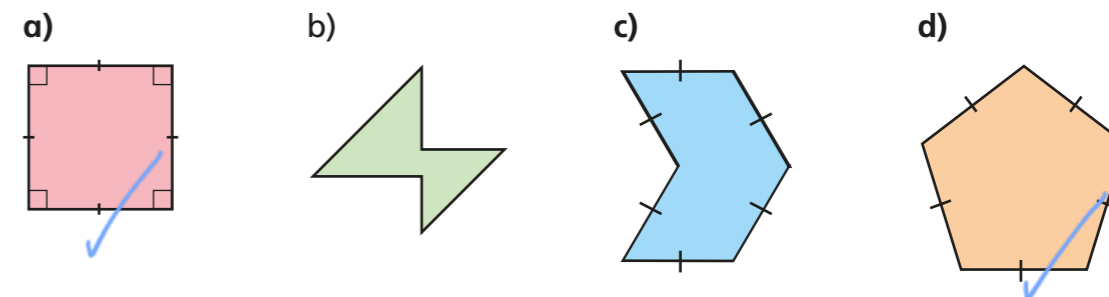
A rhombus is a regular quadrilateral because all of the side lengths are equal.

Do you agree with Annie? No

Explain your answer.

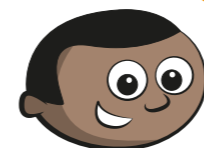
7

Tick the polygons that are regular.



Discuss your reasoning with a partner.

8



A pentagon has five sides, so if I join two regular pentagons together I will make a regular decagon.

Do you agree with Mo? No

Explain your answer.