Identify angles



Complete the sentences.

Use the word bank to help you.

90

180

greater

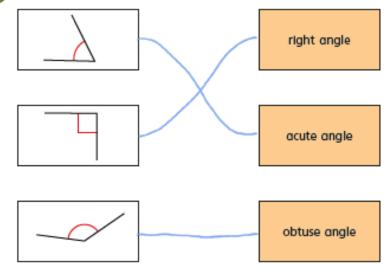
less

a) A right angle is 90 degrees.

b) An acute angle is _____ than qo degrees.

c) An obtuse angle is ______ than 90 degrees but less than 180 degrees.

Match the angles to the labels.

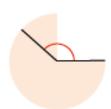


Label the angles: acute, obtuse or right angle.

a)



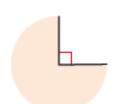
d)



acute

alabuse

b)



-,



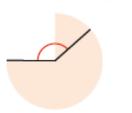
right angle



c)



f)



Courte.

clobs m

Tick all the acute angles.















Label the angles: acute, obtuse or right angle.

a)



C)



<u>right angle</u>

acute

b)



7

obbuse

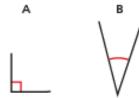
obbuse

- is the angle acute, obtuse or a right angle?
 - a) 35° <u>a.cute</u>
- d) 89° acute
- b) 99° <u>datuse</u>
- e) 121° <u>obtuz</u>
- c) 90° right angle
- f) 179° <u>elokuse</u>

How do you know?









Are the statements always true, sometimes true or never true? Explain your answer.



Always, Obsuse angles one artober than 90° therefore greater than acute angles which are less than 90°.

b) An acute angle is a greater turn than a right angle turn.

Nover. Acute angles are less than 90° is, less than a right angle.

c) If you turn through two acute angles you will have turned through an obtuse angle.

Sometimes. Fig. 12"+12"- 24" (acces) but 50"+50" = 100"(dolum)



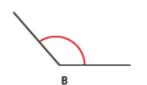


Compare and order angles



Here are two angles.





a) Which angle is obtuse?

__B__

b) Which angle is acute?



How do you know?



Here are two angles.





a) What type of angle is angle X?

-dohuse.

b) What type of angle is angle Y?

ciolouse

c) Which angle is smaller?

Υ

How do you know?



Circle the greatest angle in each diagram.







Here is an angle.







- a) Draw a smaller angle than 105° in the box on the left.
- b) Draw a greater angle than 105° in the box on the right.
- c) is this statement true or false?

The angles are in ascending order of size.

true

Explain your answer.



a)







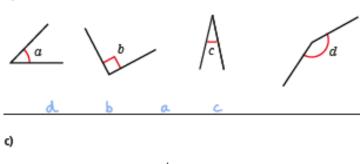


d a

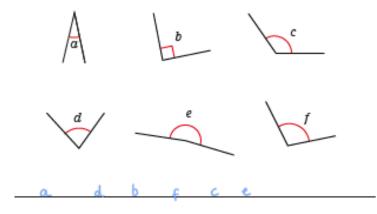




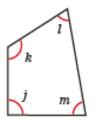
b)



Compare and order the angles from smallest to greatest.



7) Four angles are labelled in the quadrilateral.



a) Which of the angles are acute angles?



b) Which of the angles are obtuse angles?



c) Write the angles in order of size, starting with the smallest.



An interior angle is marked in each polygon.







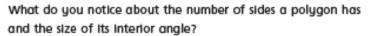






Order the Interior angles of the polygons from smallest to greatest.









Triangles



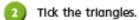




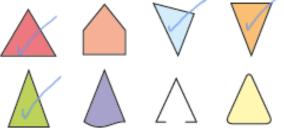
- a) Tick the polygons.
- b) Talk to a partner about the shapes you have not ticked. Why are they not polygons?
- c) Write a definition of a polygon.

A closed shape made up a straight

Compare your definition with a partner's.



siden



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

Annie is identifying shapes.



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



Do you agree with Annie? No

Explain your answer.

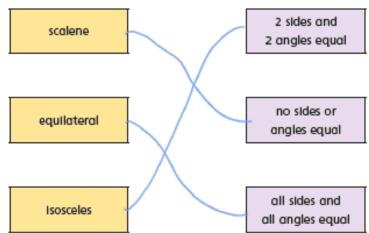
A triangle has three straight sides this shape



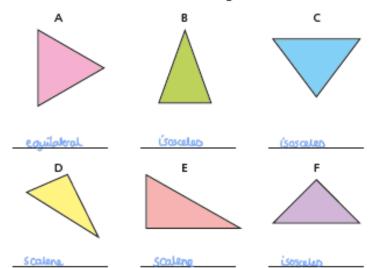




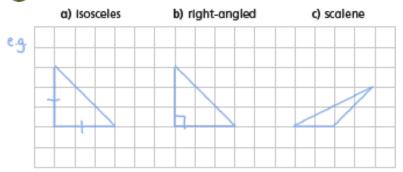
Match the type of triangle to the definition.



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



Draw each triangle in the grid.



Which triangle was hardest to draw?

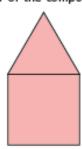
The perimeter of the square is 100 cm.



The diagram shows an equilateral triangle and a square.



Work out the perimeter of the compound shape.



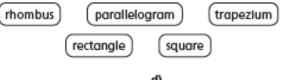
perimeter = 125 cm

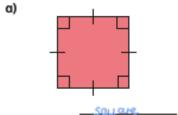


Quadrilaterals



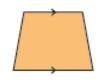
Use the word bank to label each quadrilateral.

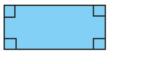






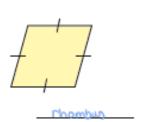




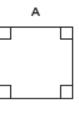




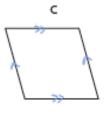
c)



Here are some quadrilaterals.

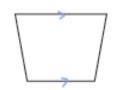








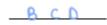
D



- a) Mark any right angles on the shapes.
 One shape has been done for you.
- b) Mark any pairs of parallel lines.
 One shape has been done for you.
- c) Which shapes do not have any right angles?



d) Which shapes have two pairs of parallel lines?



e) Which shapes have four equal sides?



Compare answers with a partner.



How did you know which shape was which?

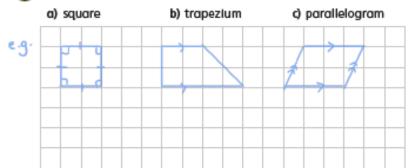
Complete the table.

Shape	Polygon?	Number of sides	Number of right angles	Number of pairs of parallel sides	Number of equal sides
	Yes	4	4	2	2 pairs
	Yes	4	0	1	2
1 ***	Чер	4	0	2	2 pairs
	Чео	4	4	2	4
	Чер	4	0	2	4
	Чер	4	0	ı	0

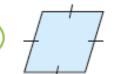
What is the same about all of the shapes? What is different?



Draw the shapes on the grid.



This is a square because it has got 4 equal sides.





Do you agree with Rosle? No Explain your answer.



Complete this Frayer Model to describe a quadrilateral.



.q.	My definition	Key characteristics		
	A closed shape with pour	closed shape		
	Straight sides.	H straight sides		
	Quadr	ilateral 4 vertices		
	Example	Non-example		
		$\triangle \circ_{L}$		

