

Compare and order angles

- 1 Here are two angles.

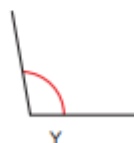
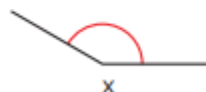


a) Which angle is obtuse?

b) Which angle is acute?

How do you know?

- 2 Here are two angles.



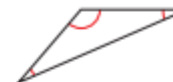
a) What type of angle is angle X?

b) What type of angle is angle Y?

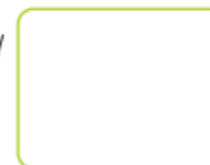
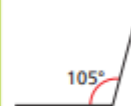
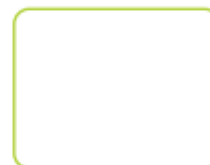
c) Which angle is smaller?

How do you know?

- 3 Circle the greatest angle in each diagram.



- 4 Here is an angle.



a) Draw a smaller angle than 105° in the box on the left.

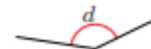
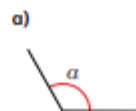
b) Draw a greater angle than 105° in the box on the right.

c) Is this statement true or false?

The angles are in ascending order of size.

Explain your answer.

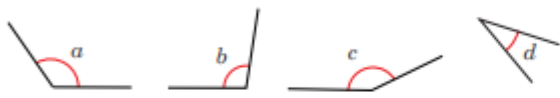
- 5 Order the angles from greatest to smallest.



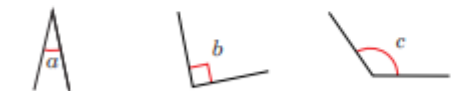
b)



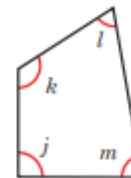
c)



6 Compare and order the angles from smallest to greatest.



7 Four angles are labelled in the quadrilateral.

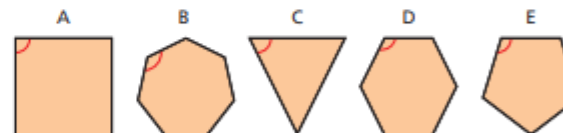


a) Which of the angles are acute angles? _____

b) Which of the angles are obtuse angles? _____

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

8 An interior angle is marked in each polygon.



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

What do you notice about the number of sides a polygon has and the size of its interior angle?



Answers below

Compare and order angles

1 Here are two angles.



a) Which angle is obtuse?

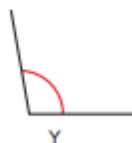
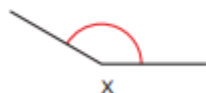
B

b) Which angle is acute?

A

How do you know?

2 Here are two angles.



a) What type of angle is angle X?

obtuse

b) What type of angle is angle Y?

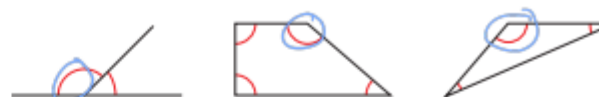
acute

c) Which angle is smaller?

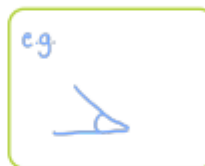
Y

How do you know?

3 Circle the greatest angle in each diagram.



4 Here is an angle.



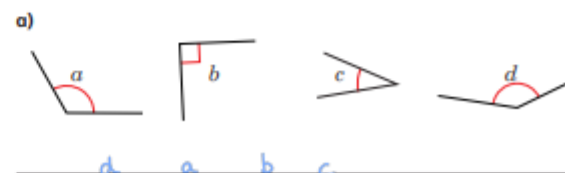
- Draw a smaller angle than 105° in the box on the left.
- Draw a greater angle than 105° in the box on the right.
- Is this statement true or false?

The angles are in ascending order of size.

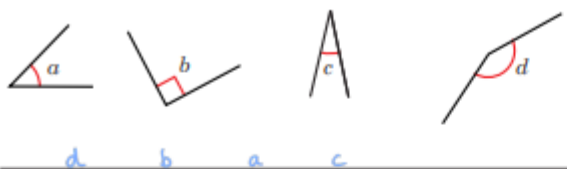
true

Explain your answer.

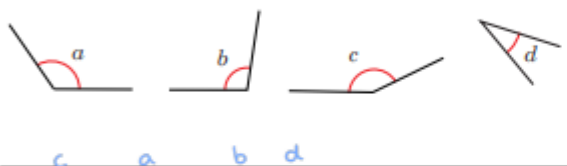
5 Order the angles from greatest to smallest.



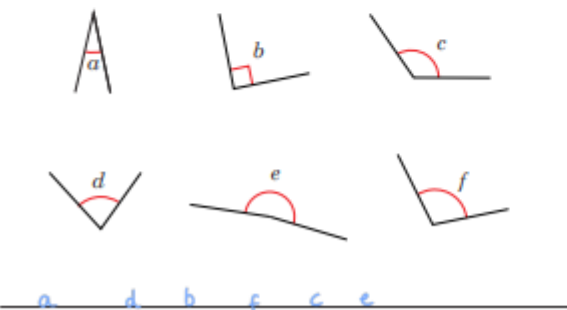
b)



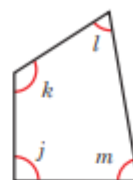
c)



6 Compare and order the angles from smallest to greatest.



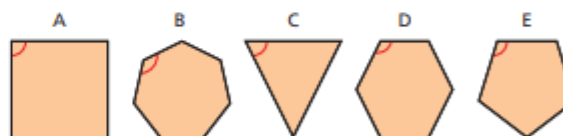
7 Four angles are labelled in the quadrilateral.



- Which of the angles are acute angles? l m
- Which of the angles are obtuse angles? k
- Write the angles in order of size, starting with the smallest.

l m j k

8 An interior angle is marked in each polygon.



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

C A E D B

What do you notice about the number of sides a polygon has and the size of its interior angle?