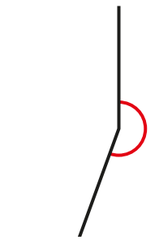
Draw and measure angles between 180° and 360°

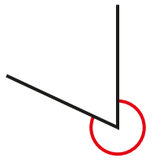
1 Measure the angles.

a)



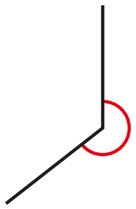
°

b)



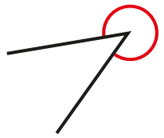
°

c)



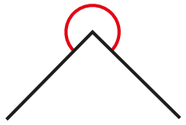
°

d)



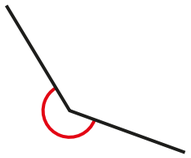
°

e)



°

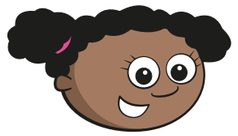
f)



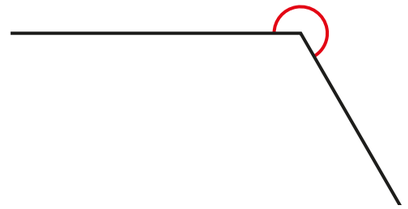
°

Discuss the method you used with a partner.

2 Whitney is measuring this angle.

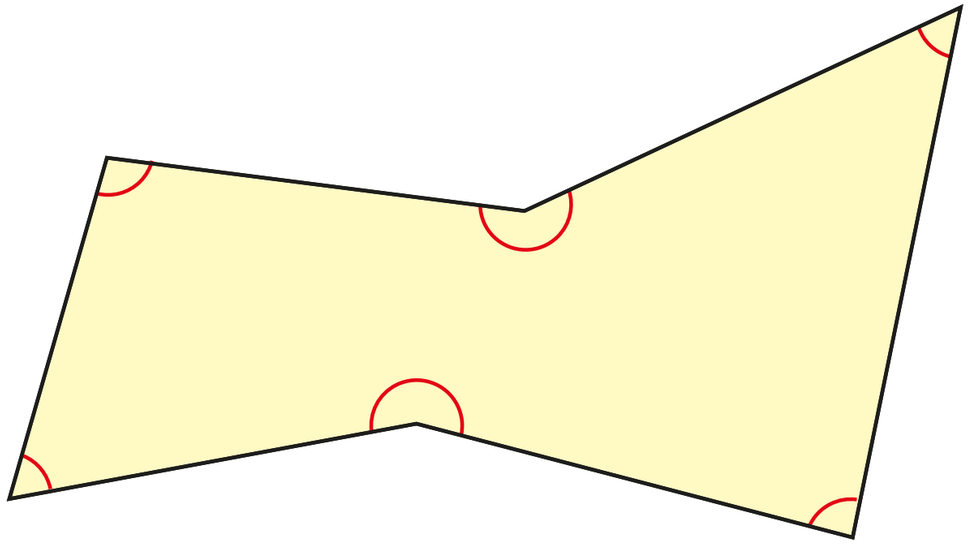


The angle is 120°.



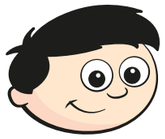
What mistake has Whitney made?

3 Here is an irregular hexagon.

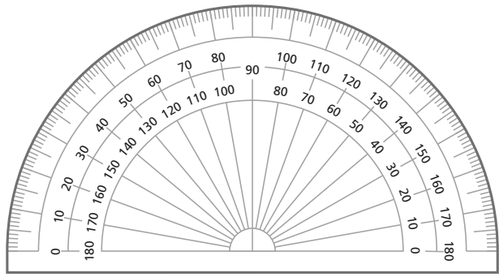


Measure and label the size of all the interior angles of the hexagon.

4



It is not possible to use a protractor to draw angles greater than 180°.



Dexter is incorrect. Talk to a partner about how you can draw an angle of 225° using a protractor.

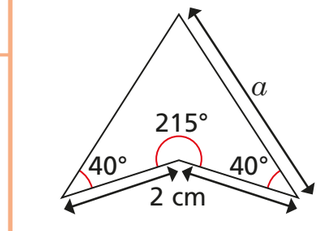
5 Draw the angles.

a) 285° **b)** 241° **c)** 354°

6 Make an accurate drawing of the arrowhead.

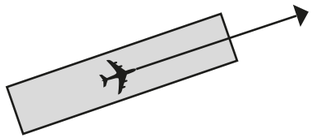
What is the length of the side marked a?

cm



7 An aircraft takes off from the runway shown in the diagram.

- It flies for 10 miles in the direction shown by the arrow.
- It then turns clockwise through an angle of 80 degrees.
- It flies in this direction for 6 more miles.
- It then turns anticlockwise through 260 degrees and flies for 12 miles.
- Draw a diagram to show the path of the aircraft.



1 cm = 2 miles