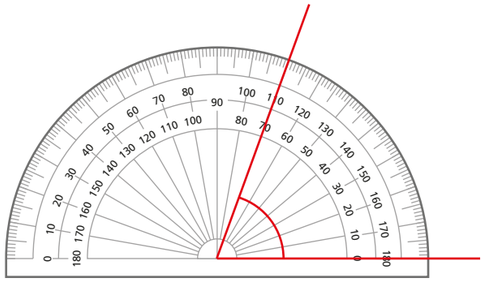
Measure angles up to 180°

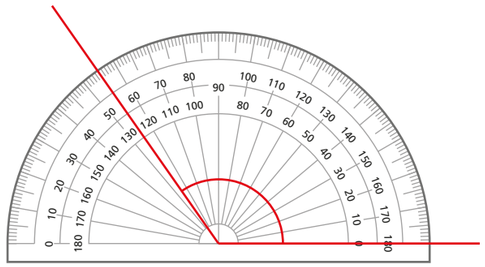
1 What is the size of the angle marked in each diagram?

a)



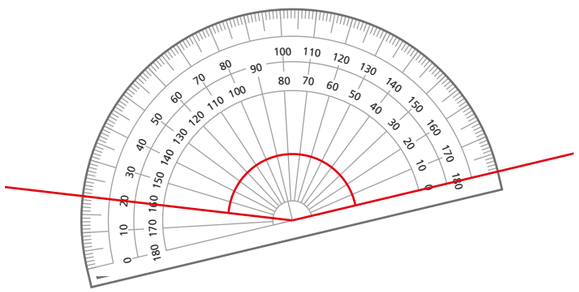
70 °

b)



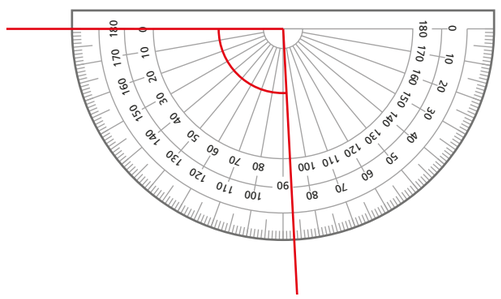
125 °

c)



160 °

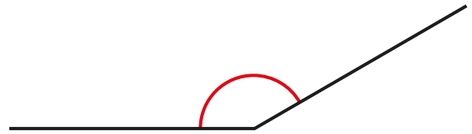
d)



93 °

2 Nijah measures this angle.

She says the angle marked is 30°.



a) How do you know, just by looking at the angle, that it is not 30°?

It's an obtuse angle.

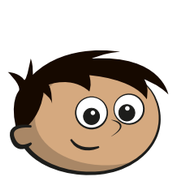
b) What mistake do you think Nijah has made?

Read the wrong number on the protractor.

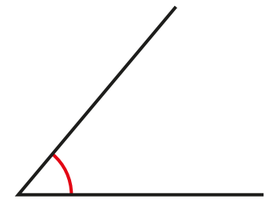
c) What is the size of the angle?

150 °

3 Amir and Rosie each draw an angle.

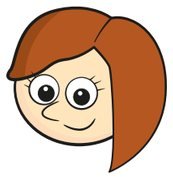


My angle is greater than yours.



Amir

That's not correct. Our angles are the same.



Rosie

a) Measure to show that Rosie is correct.

What is the size of both angles?

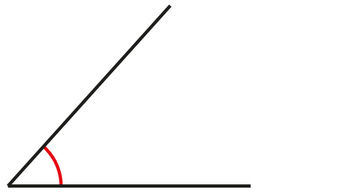
50 °

b) Why do you think Amir thought his angle was greater than Rosie's?

His line segments are longer.

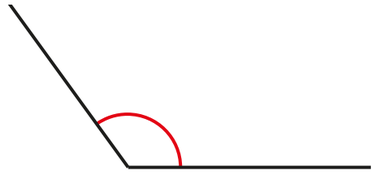
4 Use a protractor to measure the angles.

a)



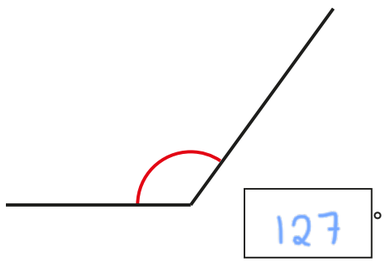
48 °

b)



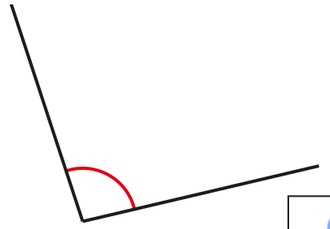
126 °

c)



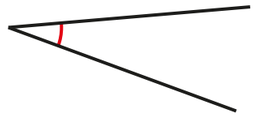
127 °

d)



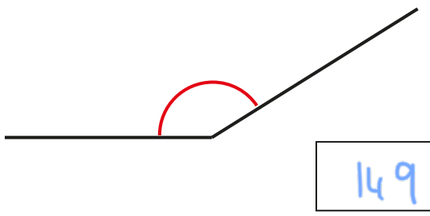
95 °

e)



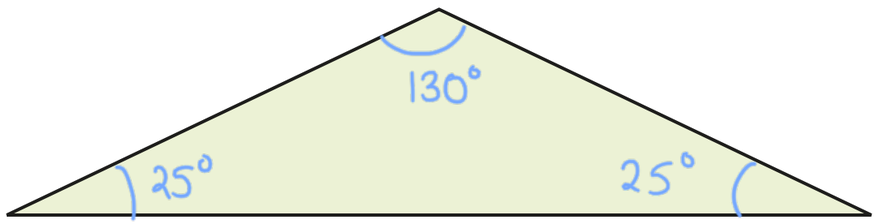
26 °

f)



149 °

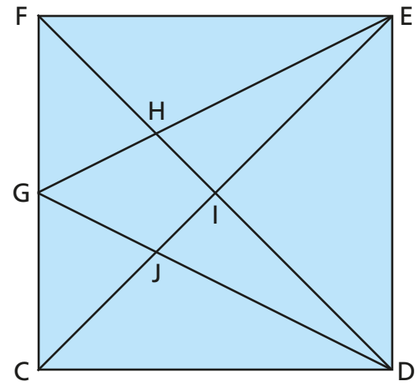
5 Measure each of the angles in this triangle and label them on the diagram.



What check could you do to see if you are correct?

Check they sum to 180°.

6 Measure the angles in the diagram.



a) CDJ 27 °

b) FCE 45 °

c) FCJ 45 °

d) HIJ 90 °

e) GEI 18 °

f) FHJ 131 °

7 Captain Jones is facing the tree.

× Captain Jones

a) He turns clockwise to face the pirate ship.

What angle does he turn through? 161 °

b) Captain Jones then turns clockwise to face the treasure chest.

What angle has he turned through now? 134 °