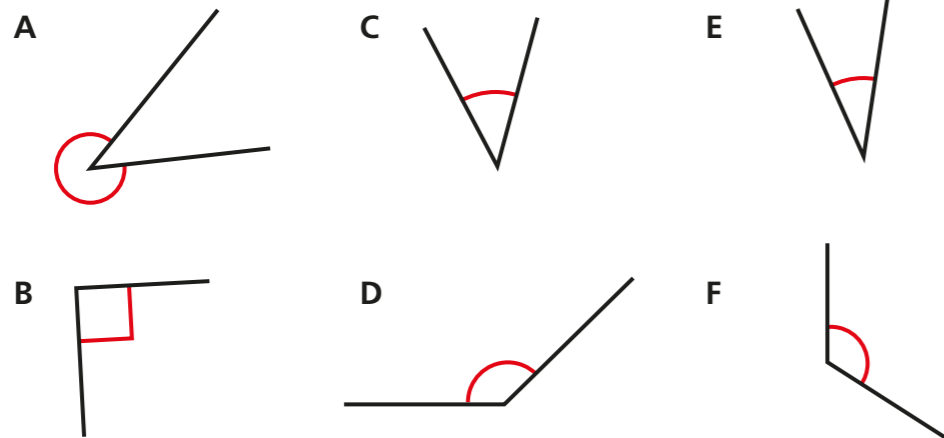


Measure with a protractor

1 Here are some angles.



a) Sort the angles into the table.

Acute angle	Obtuse angle	Right angle	Reflex angle
C E	D F	B	A

b) How did you decide where to place each angle?

Various answers

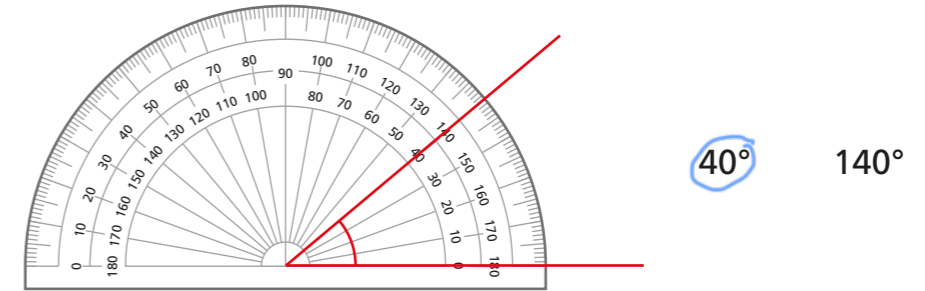
c) Estimate the size of each angle.

A	<input type="text" value="315°"/>	C	<input type="text" value="40°"/>	E	<input type="text" value="30°"/>
B	<input type="text" value="90°"/>	D	<input type="text" value="135°"/>	F	<input type="text" value="122°"/>

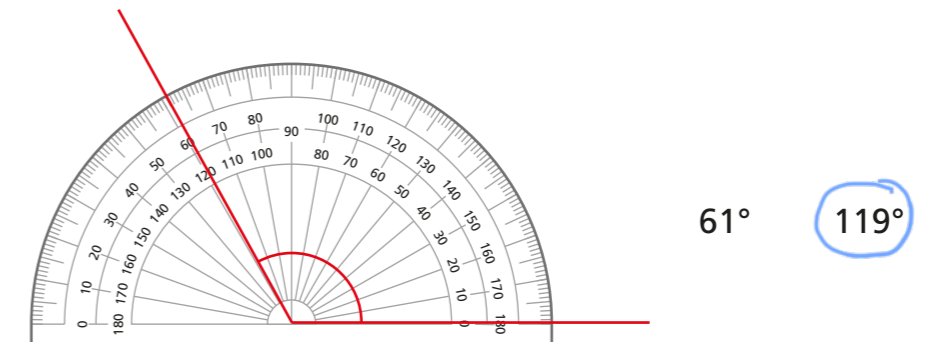
Compare answers with a partner.

2 What is the size of each angle? Circle your answer.

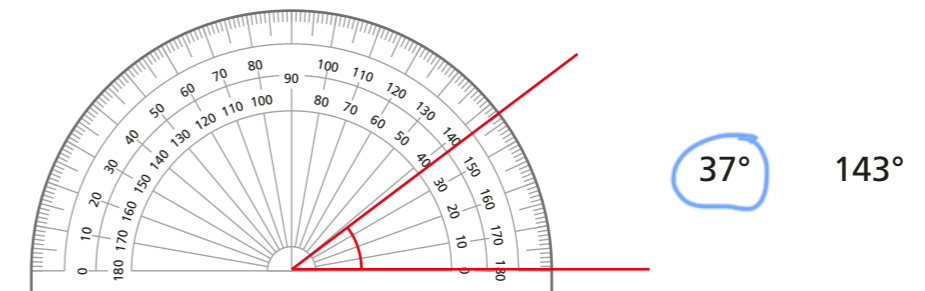
a)



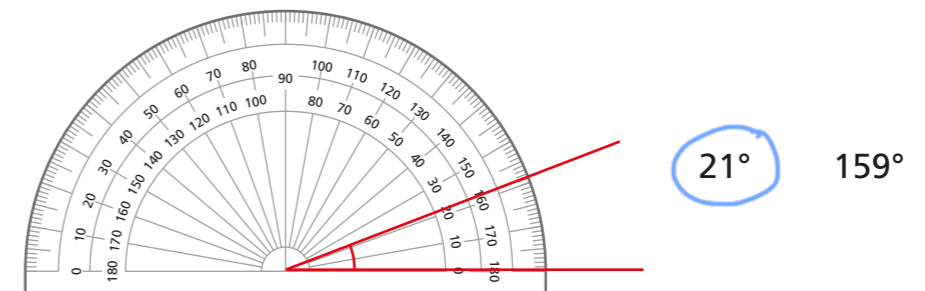
b)



c)



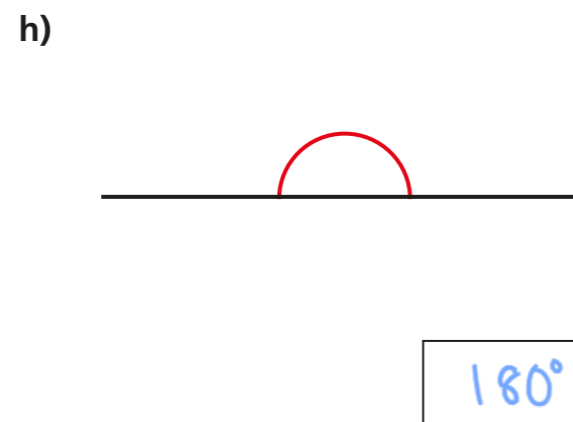
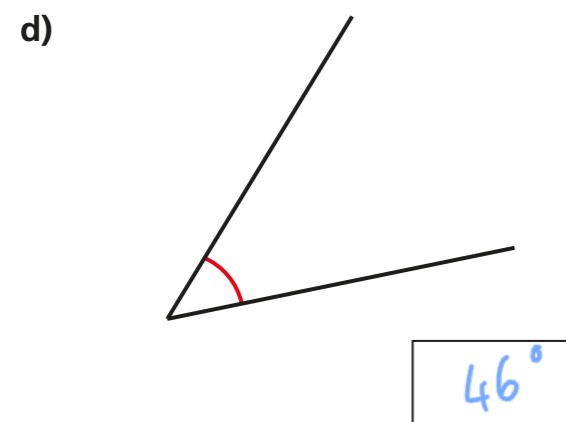
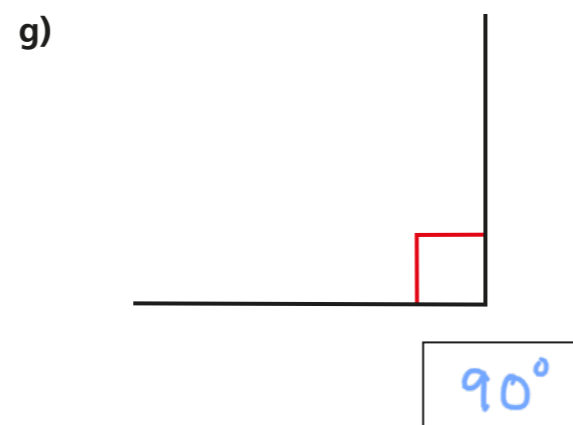
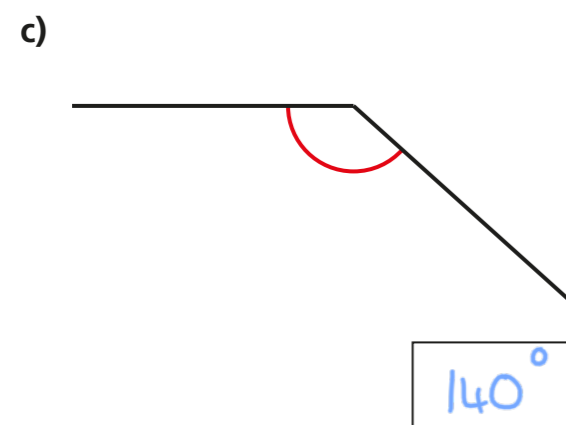
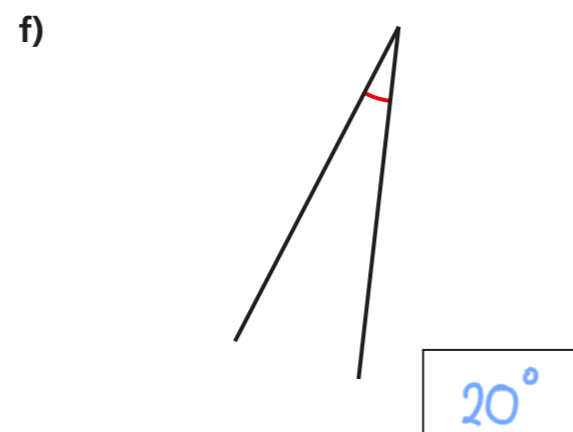
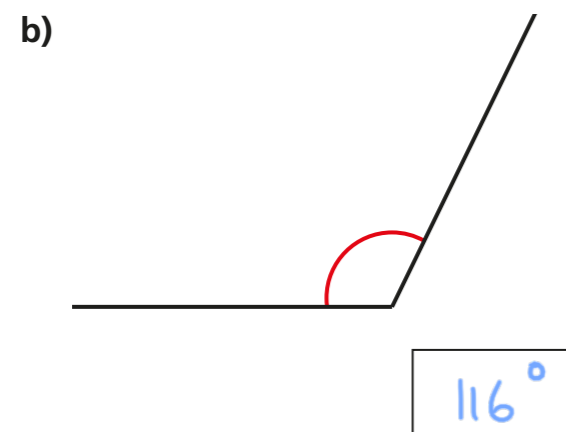
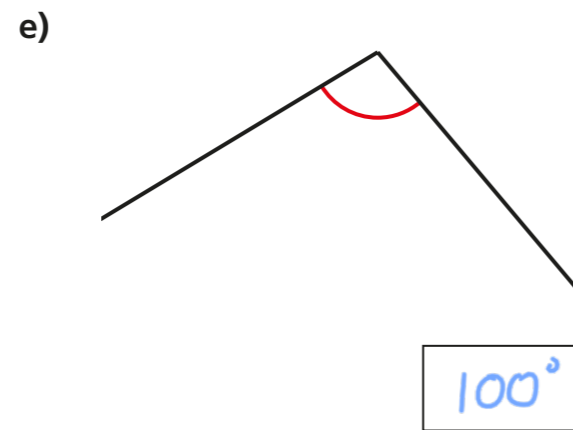
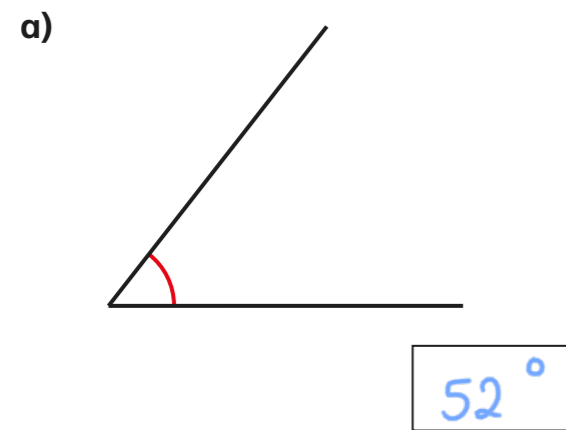
d)



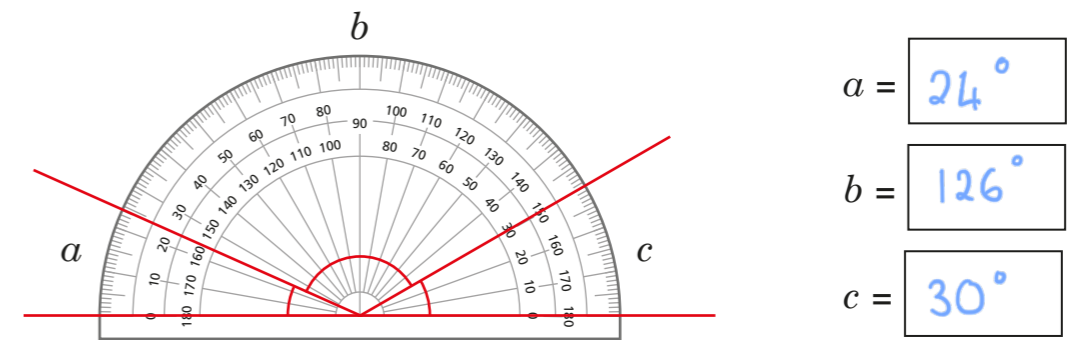
Look at the angles you have **not** circled.
Why might somebody think they are correct?



3 Measure the size of each angle using a protractor.



4 a) Work out the sizes of the angles.



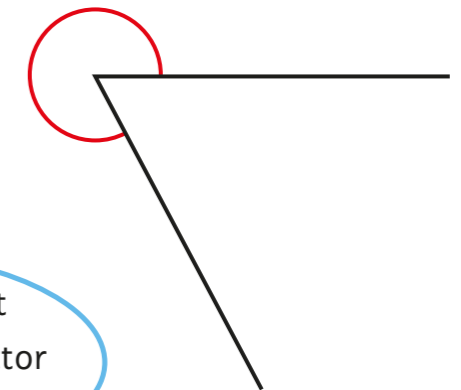
b) Discuss with a partner how you worked out each angle.

c) Find the total of your three angles. 180°

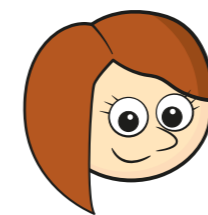
What do you notice?

They add up to 180° because they're on a straight line.

5 Rosie is measuring the size of this angle.



a)



I can't measure it because my protractor doesn't go that far.

Do you agree with Rosie? No

Explain your answer.

Various answers.

b) Measure the size of the angle.

298°