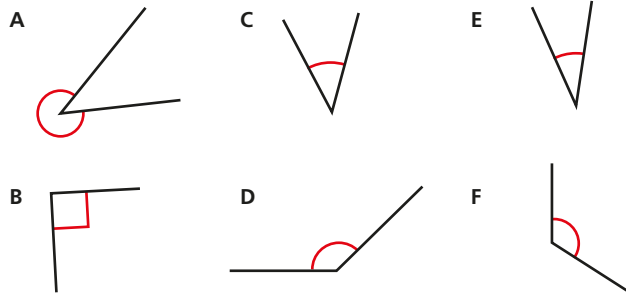


Measure with a protractor

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

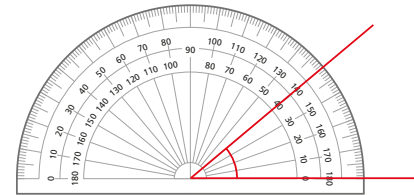
c) Estimate the size of each angle.

A 315°	C 40°	E 30°
B 90°	D 135°	F 122°

Compare answers with a partner.

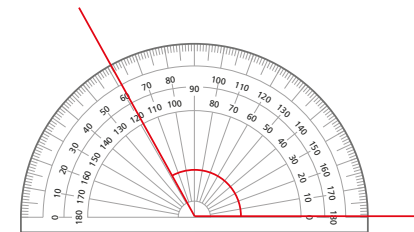
2 What is the size of each angle? Circle your answer.

a)



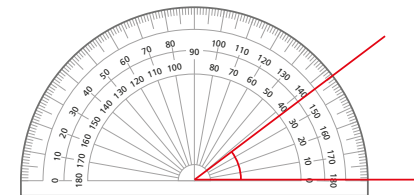
40° 140°

b)



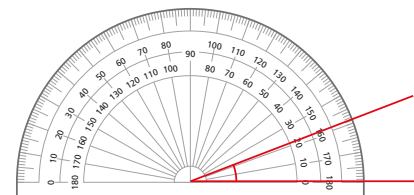
61° 119°

c)



37° 143°

d)



21° 159°

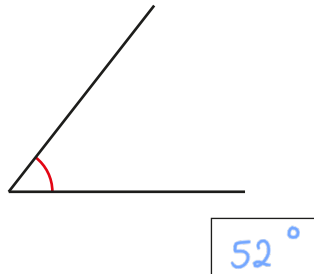
Look at the angles you have **not** circled.

Why might somebody think they are correct?

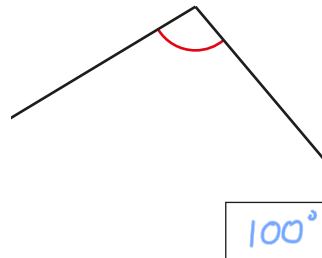


3 Measure the size of each angle using a protractor.

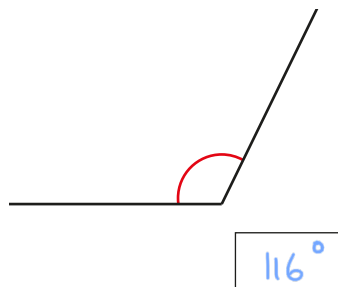
a)



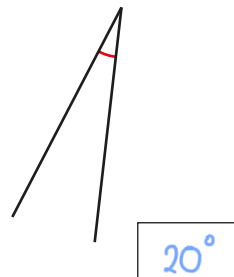
e)



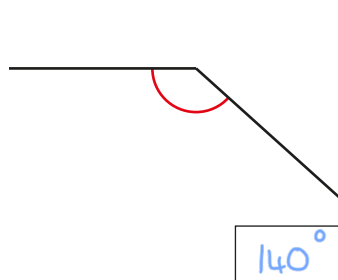
b)



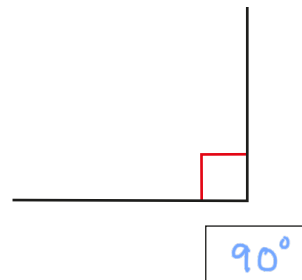
f)



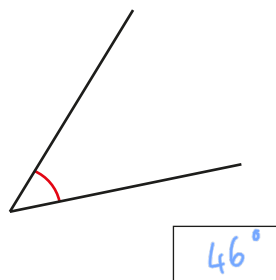
c)



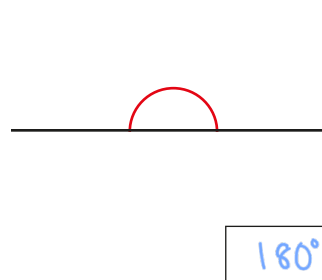
g)



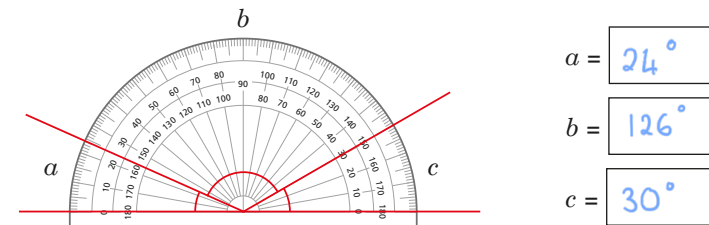
d)



h)



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.

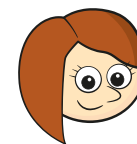
180°

What do you notice?

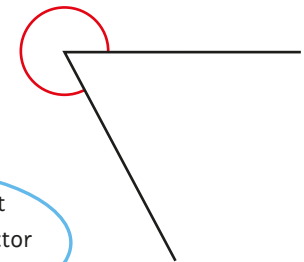
They add up to 180° because they're on a straight line.

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°