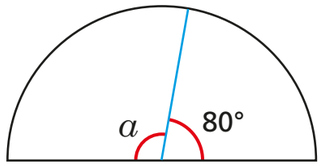
Calculating angles on a straight line

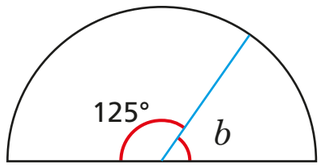
1 Work out the sizes of the unknown angles.

a)



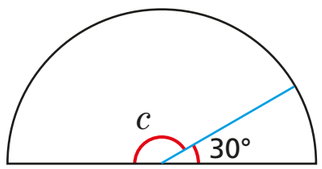
$a =$ ☐ °

b)



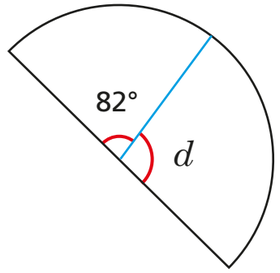
$b =$ ☐ °

c)



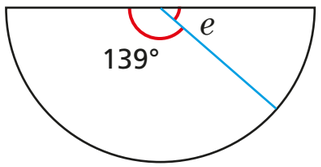
$c =$ ☐ °

d)



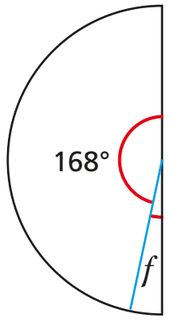
$d =$ ☐ °

e)



$e =$ ☐ °

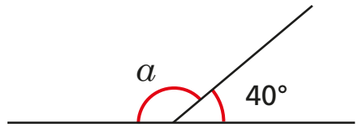
f)



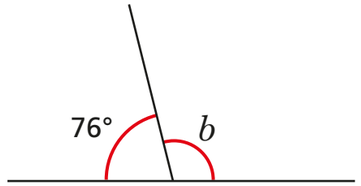
$f =$ ☐ °

2 Work out the size of the unknown angles.

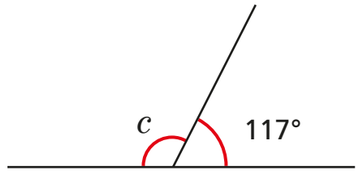
a)



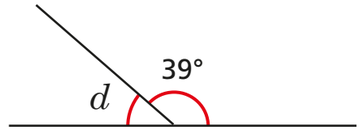
b)



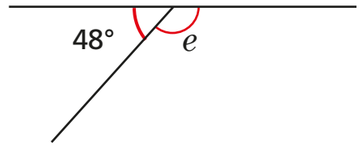
c)



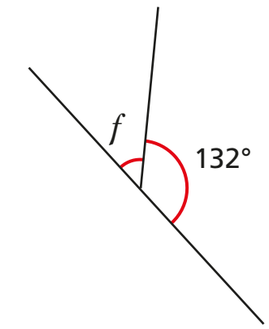
d)



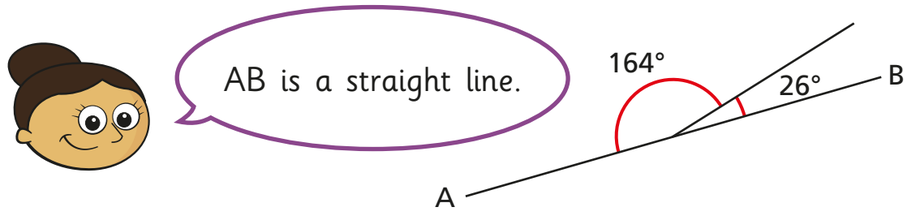
e)



f)



3 Dora draws two angles.



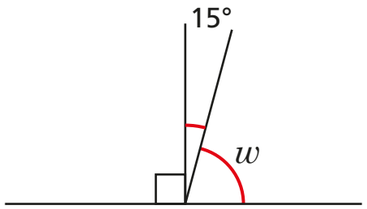
Do you agree with Dora? _____

Explain your answer.

4 Work out the size of the unknown angles.

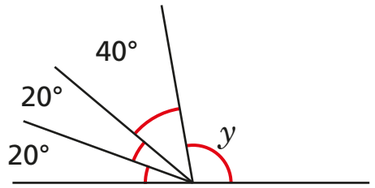
Show the steps in your working.

a)



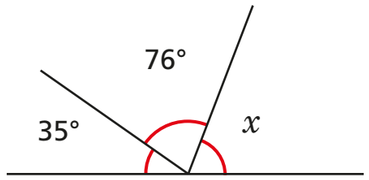
$w =$ ☐ °

c)



$y =$ ☐ °

b)



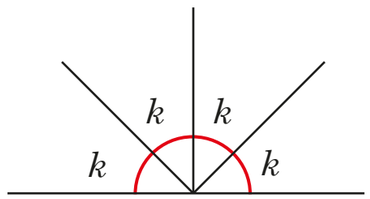
$x =$ ☐ °

d)

$z =$ ☐ °

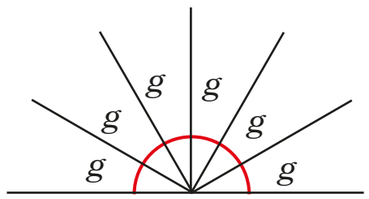
5 Work out the sizes of the unknown angles.

a)



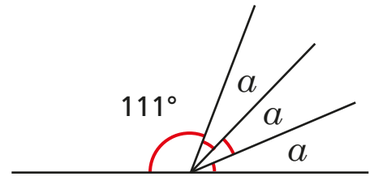
$k =$ ☐ °

b)



$g =$ ☐ °

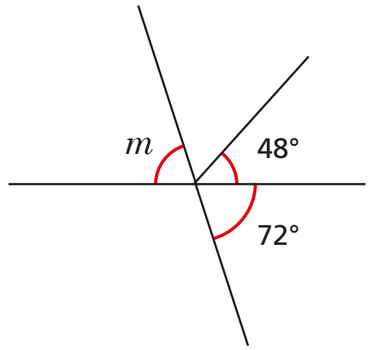
6 Work out the size of angle a.



$a =$ ☐ °

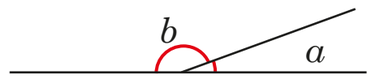
7 Work out the size of angle m.

Show all your working out.



$m =$ ☐ °

8 Two angles are marked.



Angle b is eight times the size of angle a.

What is the size of each angle?

$a =$ ☐ ° $b =$ ☐ °