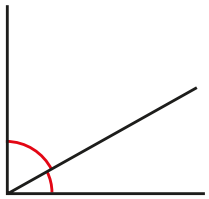
Calculate angles

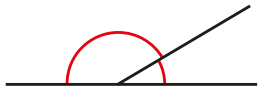
1 What is the sum of the angles shown in each diagram?

Choose one of the options and give a reason for your choice.

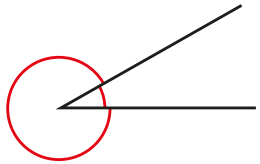
a)



b)



c)

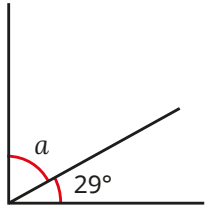


90° 180° 360°

90° 180° 360°

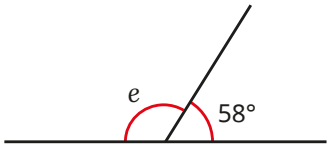
90° 180° 360°

2 Work out the size of angle a.

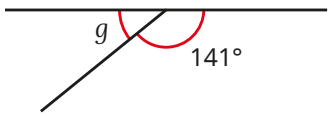


3 Work out the sizes of the unknown angles.

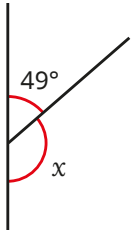
a)



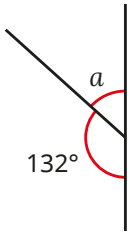
b)



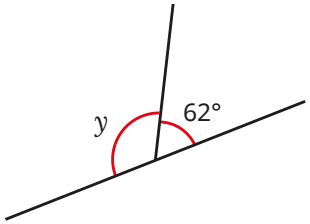
c)



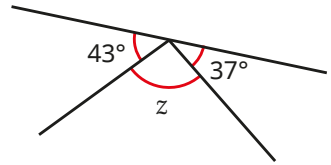
d)



e)

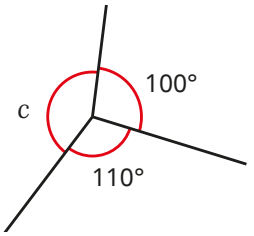


f)

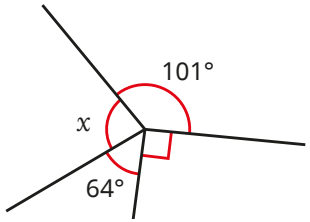


4 Work out the sizes of the unknown angles.

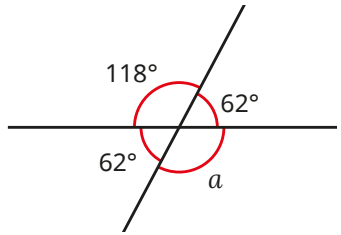
a)



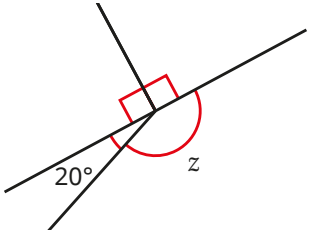
b)



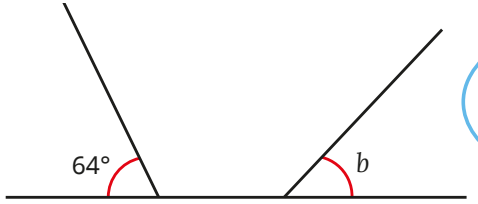
c)



d)



5

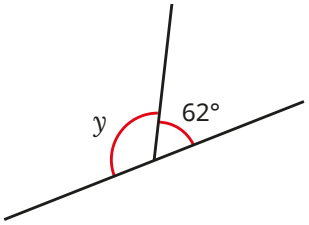


Angle b is 116° because angles on a straight line add up to 180°.

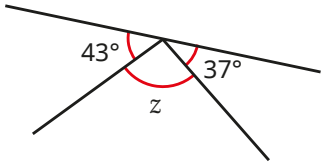
Do you agree with Tiny?

Explain your answer.

e)

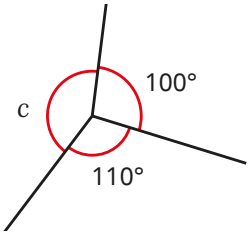


f)

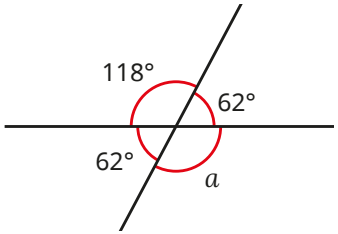


4 Work out the sizes of the unknown angles.

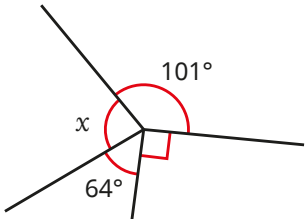
a)



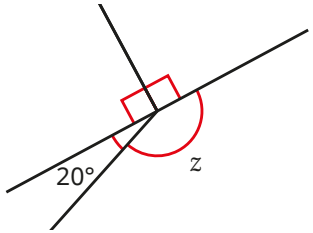
c)



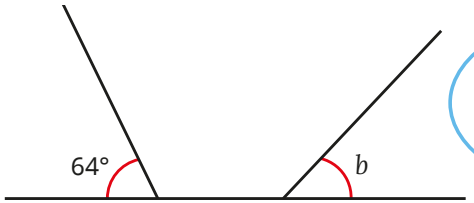
b)

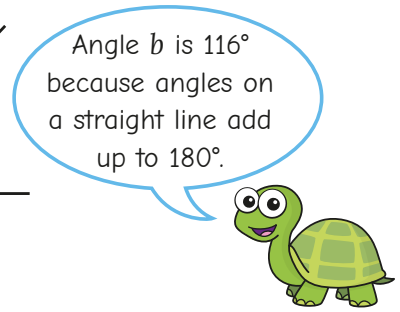


d)



5



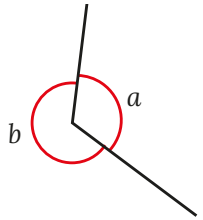


Do you agree with Tiny?

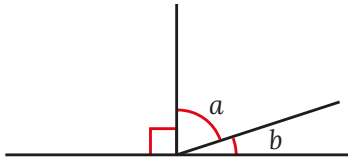
Explain your answer.

6 Use the information to work out the sizes of the unknown angles.

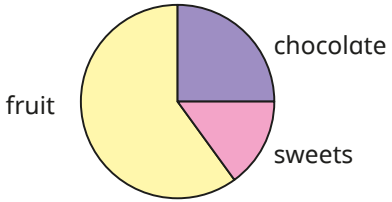
a) Angle a is half the size of angle b.



b) Angle a is four times the size of angle b.



7 The pie chart shows some children's favourite snacks.



- A quarter of the children said chocolate was their favourite snack.
- Five times as many children voted for fruit as voted for sweets.

Work out the size of the angle for each sector in the pie chart.