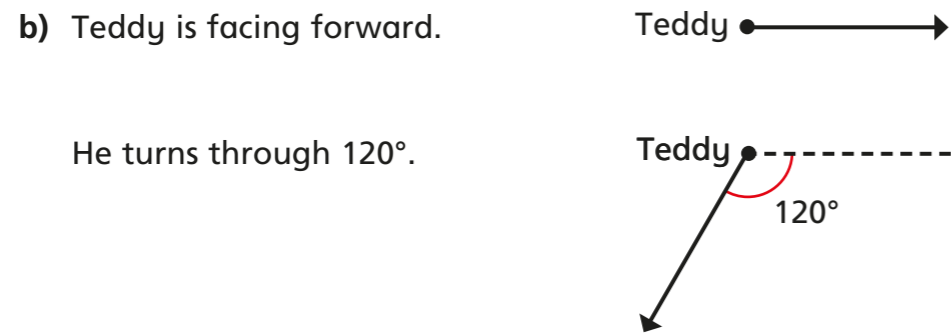


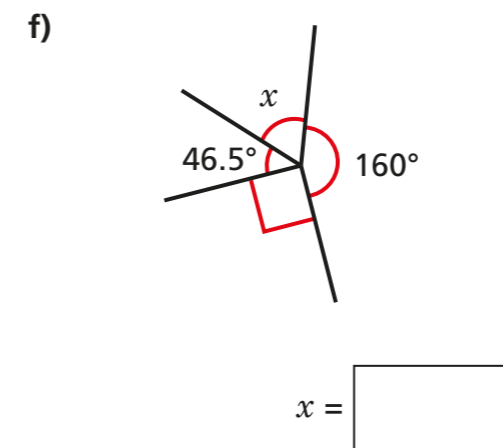
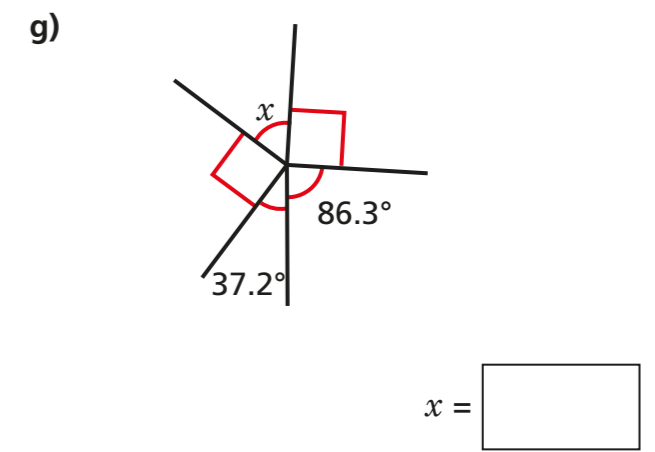
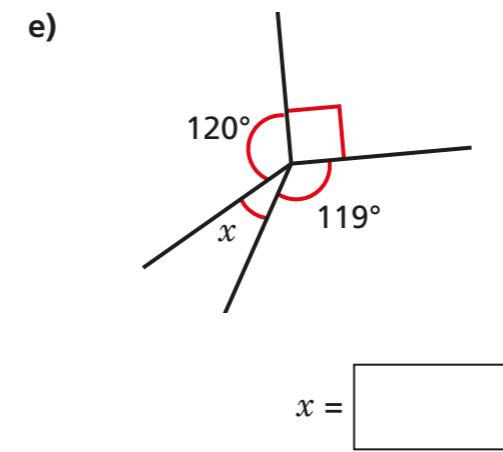
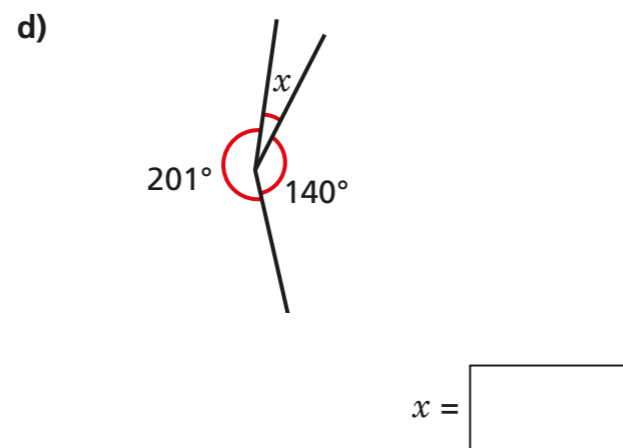
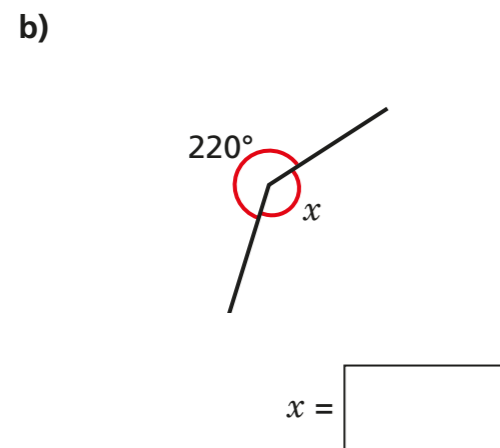
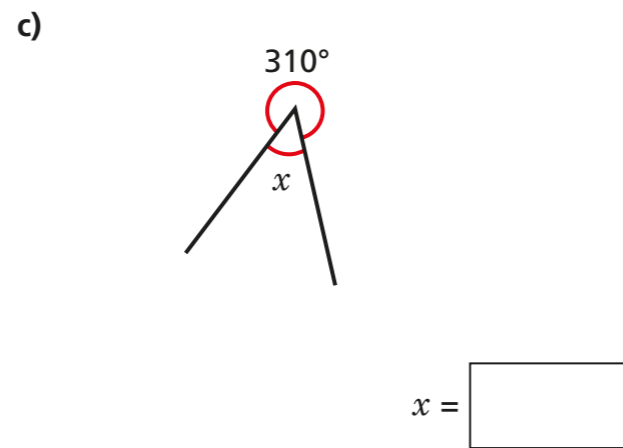
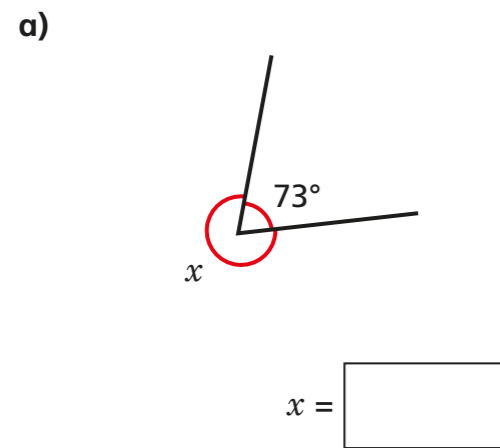
Understand and use the sum of angles at a point

1 a) How many degrees are in a full turn?

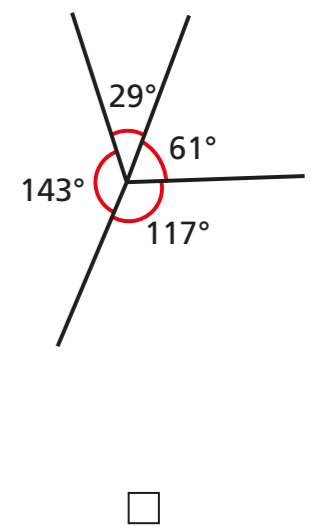
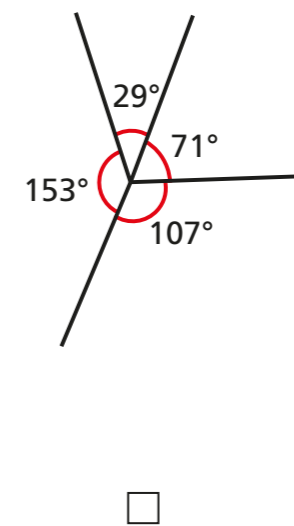
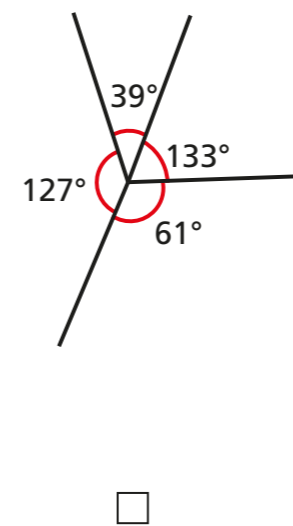


How many more degrees does he need to turn through to get back to his starting point?

2 Find the size of angle x .



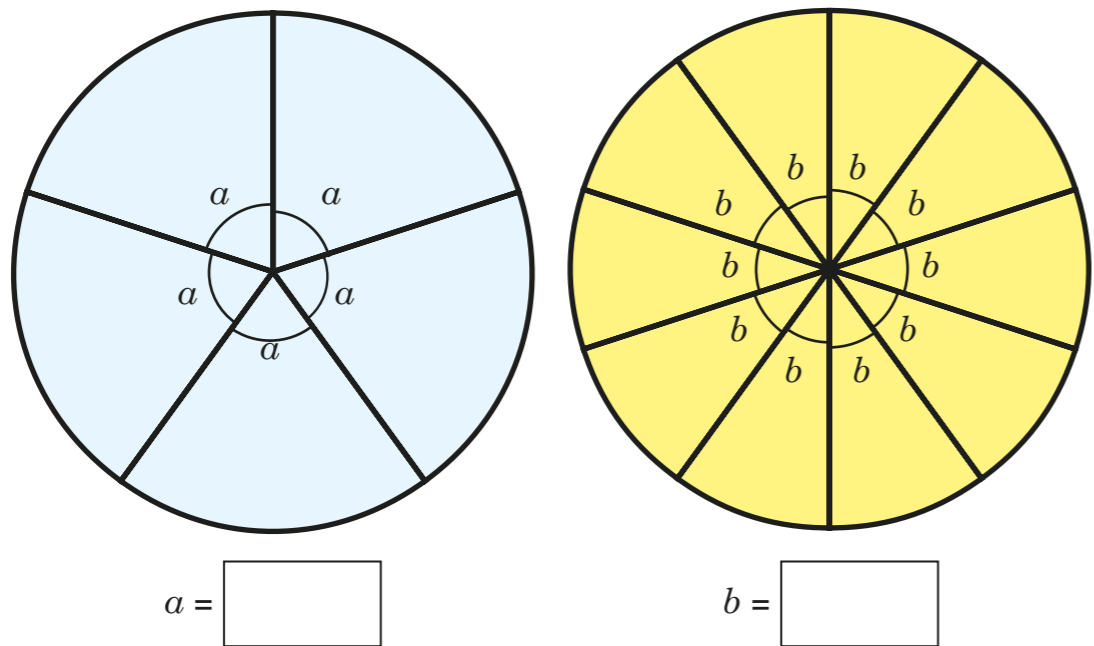
3 Tick the correct diagram.



Explain your choice.

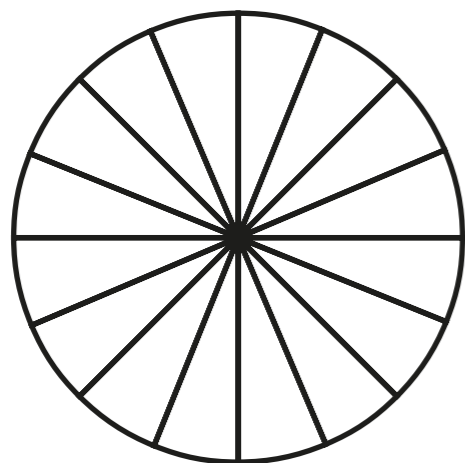


- 4 a) Find the sizes of angles a and b .



Discuss with a partner how you worked them out.

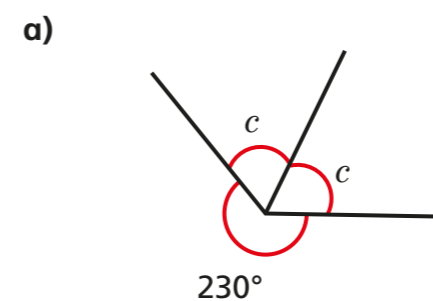
- b) Annie draws a pie chart.
She splits it into 16 equal sectors.
What is the angle of each sector?



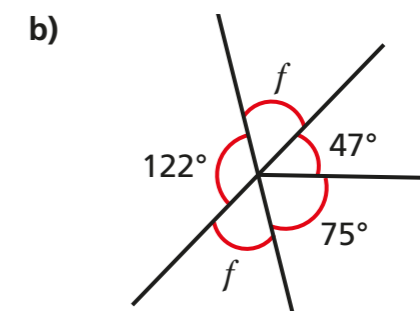
- c) Annie's pie chart represents 800 students.
How many students are represented in 5 of the sections?

 students

- 5 Work out the sizes of the unknown angles.



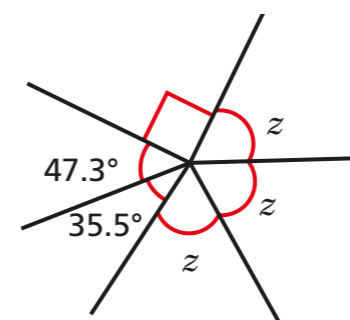
$c =$



$f =$

Compare your method with a partner's.

- 6 Form and solve an equation to find the size of angle z .



$z =$

- 7 Four line segments are drawn from a point O.
They are OP, OQ, OR and OS.
P, Q, R and S are points drawn clockwise in order around O.
Angle SOR is 91° .
Angle POQ is 26° more than angle SOR.
Angle QOR is a right angle.
Four children have worked out the size of angle SOP.
Who is correct? Tick your answer.

Tom
 243°

Whitney
 153°

Esther
 152°

Amir
 62°

Explain the mistakes that the others have made.