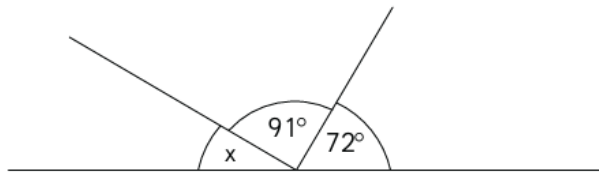


Term 4 Week 4 Maths Homework
Due: Wednesday 26th March 2025
Reasoning – Calculating with angles

1

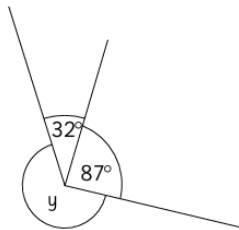
This diagram shows angles on a straight line.



Calculate the size of angle x .

2

Look at the shape below.



Calculate the size of angle y .

3

Ben and Amy are working out the missing angle x in the diagram below.



Ben says, "The missing angle is 49° ."

Amy says, "The missing angle is 57° ."

Who is correct?

Ben / Amy



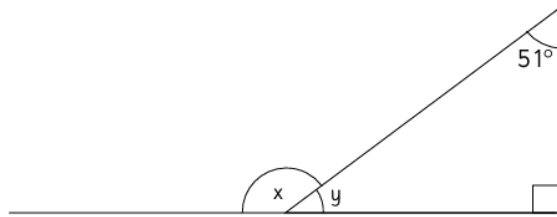
1 mark

Explain your answer.

Term 4 Week 4 Maths Homework
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Reasoning – Calculating with angles

4

This diagram shows a triangle on a straight line.



Calculate the size of angles **x** and **y**.

x = °



1 mark

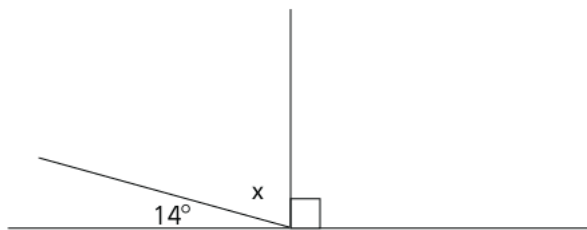
y = °



1 mark

5

This diagram shows angles on a straight line.



Calculate the size of angle **x**.

°

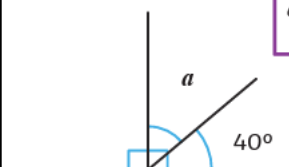
Challenge

Calculate Angles

1) Abi is calculating the size of angle **a**.



not to scale



$$180^\circ - 40^\circ = 140^\circ$$

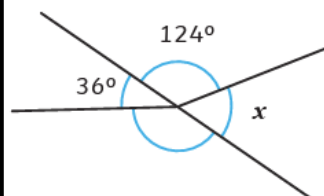
$$a = 140^\circ$$

Abi

Explain Abi's mistake and give the correct calculation to find angle **a**.

Elias wants to calculate the size of angle **x**.

not to scale



I know that angles around a point add to 360° but I need to know the value of the missing angle before I can calculate angle **x**.

Elias

Explain and correct Elias's mistake.