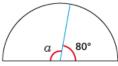
Angles Activities – Lesson 1

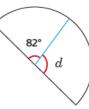
Calculating angles on a straight line

Work out the sizes of the unknown angles.

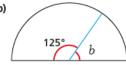
a)



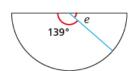
d)



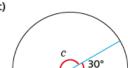
b)



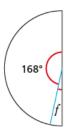
e)



c)



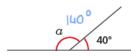
f)



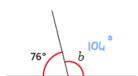
$$f = 12$$

Work out the size of the unknown angles.

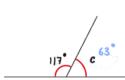
a)

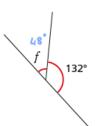


b)

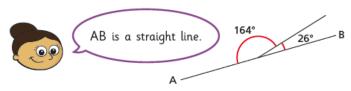


c)





Dora draws two angles.



Do you agree with Dora? No. Explain your answer.

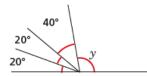


Work out the size of the unknown angles.

Show the steps in your working.

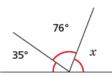
a)





$$y = | 00^{\circ}$$

b)



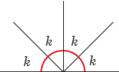
d)



$$x = 69$$

Work out the sizes of the unknown angles.

a)



b)

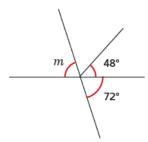


Work out the size of angle a.



Work out the size of angle m.Show all your working out.





Two angles are marked.





Angle b is eight times the size of angle a.

What is the size of each angle?



Angles Activities – Lesson 2

White Rose Maths

Calculating angles around a point

Work out the sizes of the unknown angles.

a)



c)



b)



d)



Ron turns clockwise through 110 degrees.

He continues to turn the same way.

He wants to turn to where he was facing at the start.



How many more degrees does he need to turn through?

250

Work out the size of the unknown angles.

a)



c)



b)



d



Work out the sizes of the unknown angles.

a)



h)



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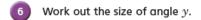
That's true. But I think we can still use it.

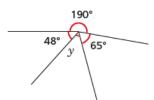


- a) Explain why Alex is correct.
- b) Draw an angle of 250 degrees.



Compare methods with a partner.





Work out the sizes of the unknown angles.



Give reasons to support your answers.

a)



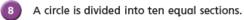
a point sum to 360° and 360÷3=120

b)



 $c = L_13$ • because <u>angles round a par</u>

sum to 360° 360-231=129 and 129 ÷ 3=43







What is the size of the angle marked g?

Measuring Angles (Maths Whizz – Shape and Space sheet)

- Q1. 45°
- Q2. 130°
- Q3. 20°
- Q4. 140°
- Q5. 180°
- Q6. 85°

White Rose Maths Challenges

Answers

Challenge 1 - 2 cm

Challenge 2 - B

Challenge 3 - 1, 4 or 7

Challenge 4 - Yellow circle

Challenge 5 - 192 cm²

Challenge 6 - £5.65