

Lesson 3

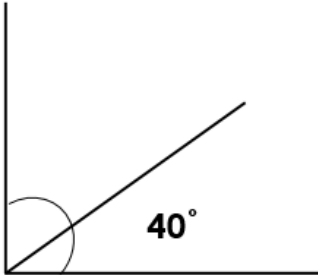
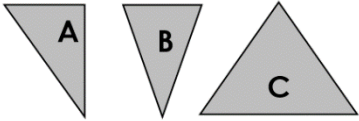
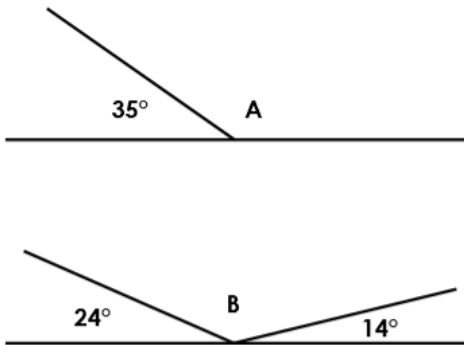
L.0 I am learning to calculate angles.

All	All of you must complete the fluency section.
Most	Most of you will complete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

Try your best – it is all we can ask for! 😊

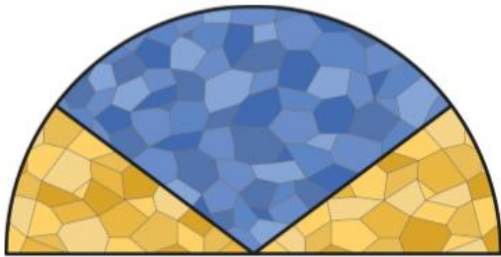
This video may help if you are stuck at any point:
<https://corbettmaths.com/2013/12/19/angles-straight-line-video-35/>
<https://corbettmaths.com/2012/08/10/angles-in-a-full-circle/>

Fluency

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
<p>2a. What is the missing angle?</p> 	
<p>5b. Identify the triangle which has a right angle.</p> 	
<p>Complete the stem sentence.</p> <div style="border: 2px solid orange; border-radius: 10px; padding: 10px; display: inline-block; margin: 10px 0;"> <p>Angles on a straight line total _____ degrees.</p> </div>	
<p>Use what you know to find all of the missing angles.</p> 	

Week 1_Maths_Lesson 3

One angle of the stained glass window measures 108° .
The other angles are equal.

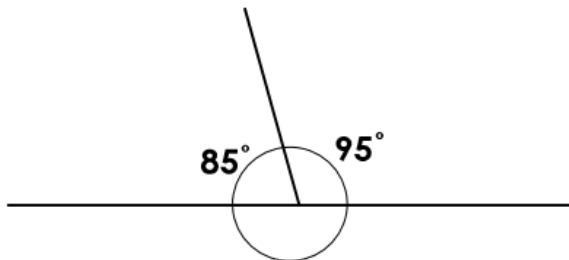


What is the size of the equal angles?

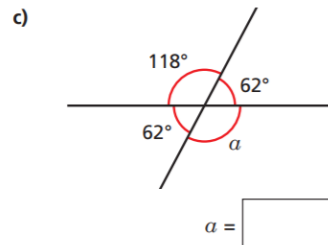
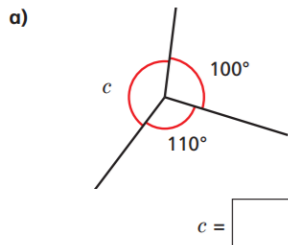
Complete the stem sentence.

Angles around a _____ total ____ degrees.

7a. What is the missing angle?



Work out the unknown angles.



12b. True or false?

79° and 126° and 155° is equal to a full turn.

Reasoning

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex

Your answer

3a. The minute hand on the clock moves from the 12 to the 3. It makes a 70° angle. True or false?

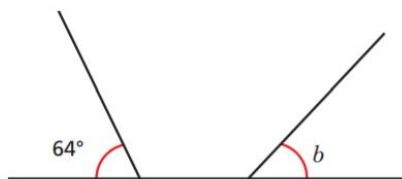


Explain why.

True or False?

When calculating angles, you can use a protractor.

Explain your reasoning.



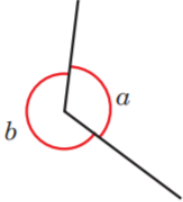
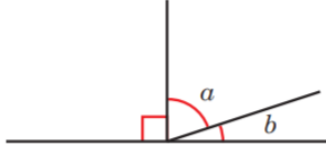
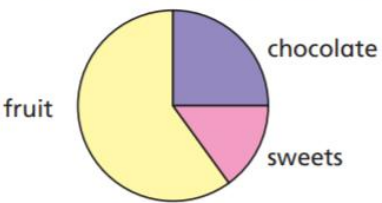
Angle b is 116° because angles on a straight line add up to 180° .




Do you agree with Tommy? _____

Explain your answer.

Problem Solving

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
<p>Use the information to work out the unknown angles.</p> <p>a) Angle a is half the size of angle b.</p> <p>b) Angle a is four times the size of angle b.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p style="margin-top: 10px;">$a =$ <input style="width: 50px; height: 20px;" type="text"/></p> <p>$b =$ <input style="width: 50px; height: 20px;" type="text"/></p> </div> <div style="text-align: center;">  <p style="margin-top: 10px;">$a =$ <input style="width: 50px; height: 20px;" type="text"/></p> <p>$b =$ <input style="width: 50px; height: 20px;" type="text"/></p> </div> </div>	
<p>The pie chart shows some children's favourite snacks.</p> <div style="text-align: center;">  </div> <p>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.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> chocolate <input style="width: 50px; height: 20px;" type="text"/> sweets <input style="width: 50px; height: 20px;" type="text"/> fruit <input style="width: 50px; height: 20px;" type="text"/> </div>	

Extension

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
<p style="color: blue; font-weight: bold; text-decoration: underline;">True or False ?</p> <p>The angle between 12 and 4 is equal to 120°</p> <div style="text-align: center; margin-top: 20px;">  </div>	