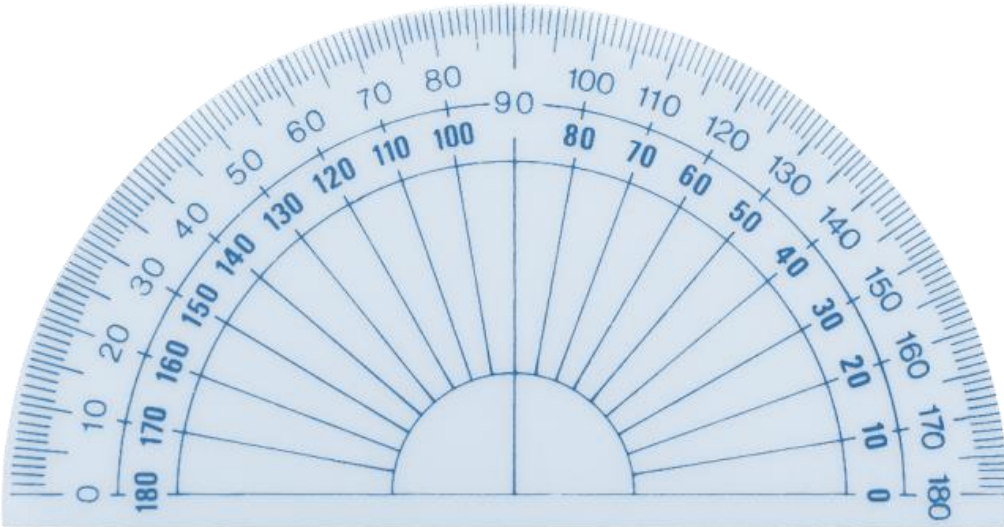


Lesson 1

L.O: I am learning to measure with a protractor.

Starter

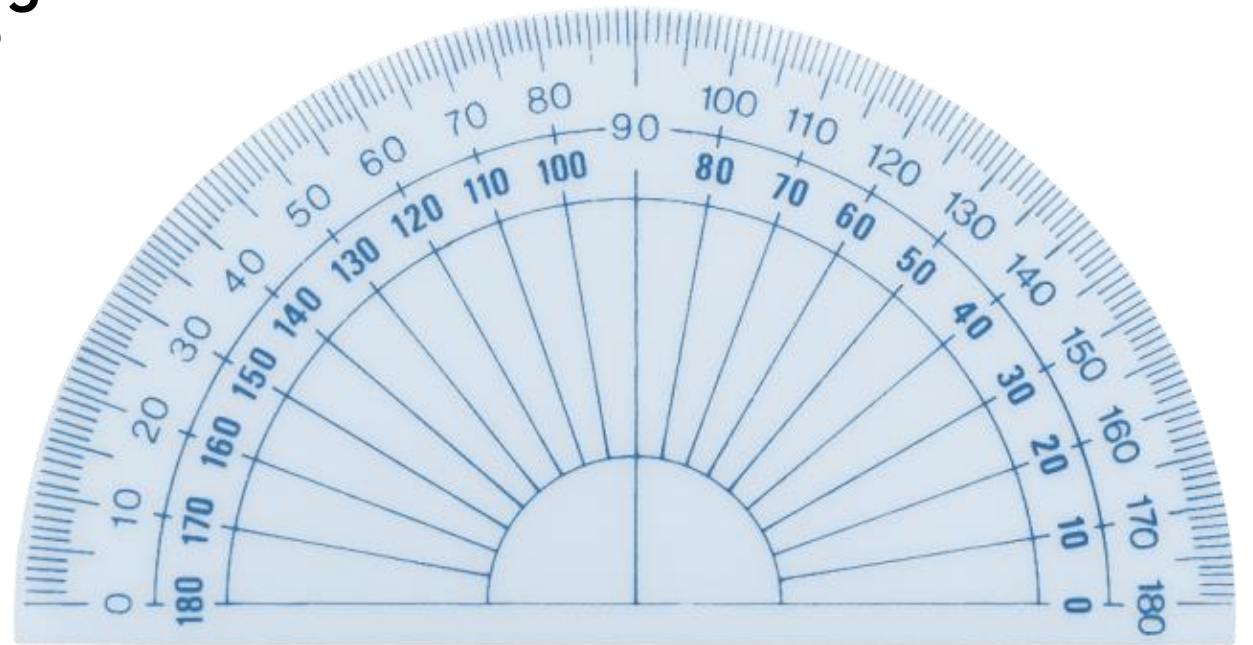


- What is this piece of equipment called?
- How would you describe it to someone who has never seen one before?
- What shape is it?
- What is it used for?
- Why are there two sets of numbers on it?
- Where have you used this piece of equipment before?

Understanding a protractor

Can you identify the following features on the protractor?

- ✓ Center line
- ✓ Outside scale
- ✓ Inside scale
- ✓ Base line



What is the importance of each feature when measuring angles?

The Protractor

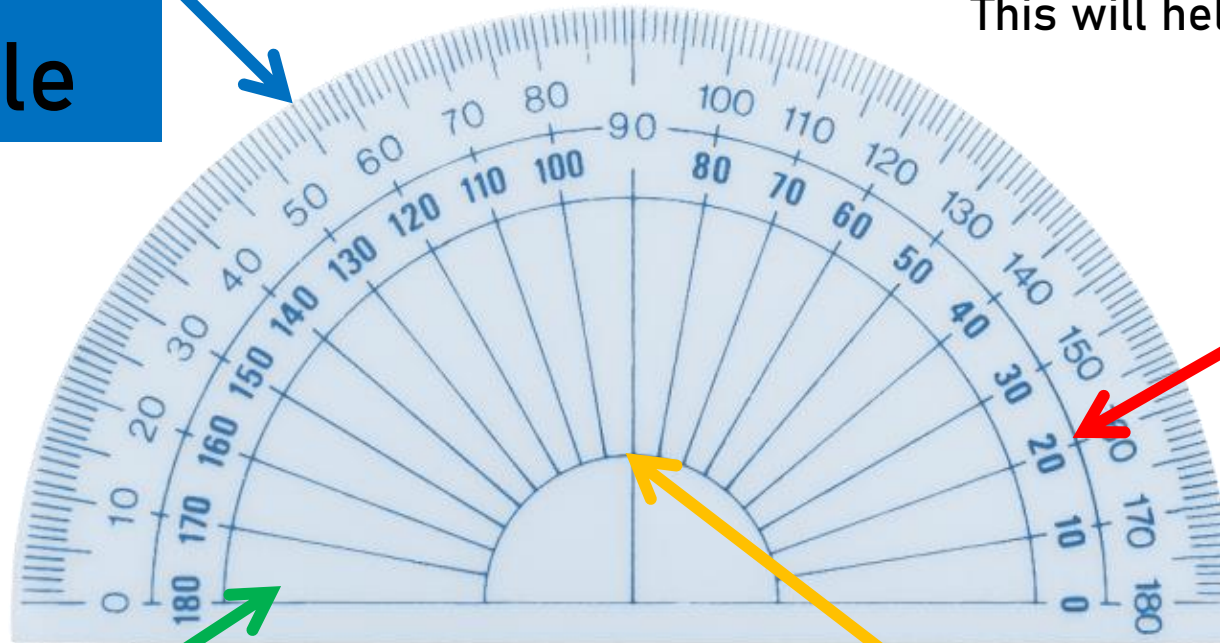
Outside
scale

ALWAYS start measuring from 0°. This will help you to use the correct scale.

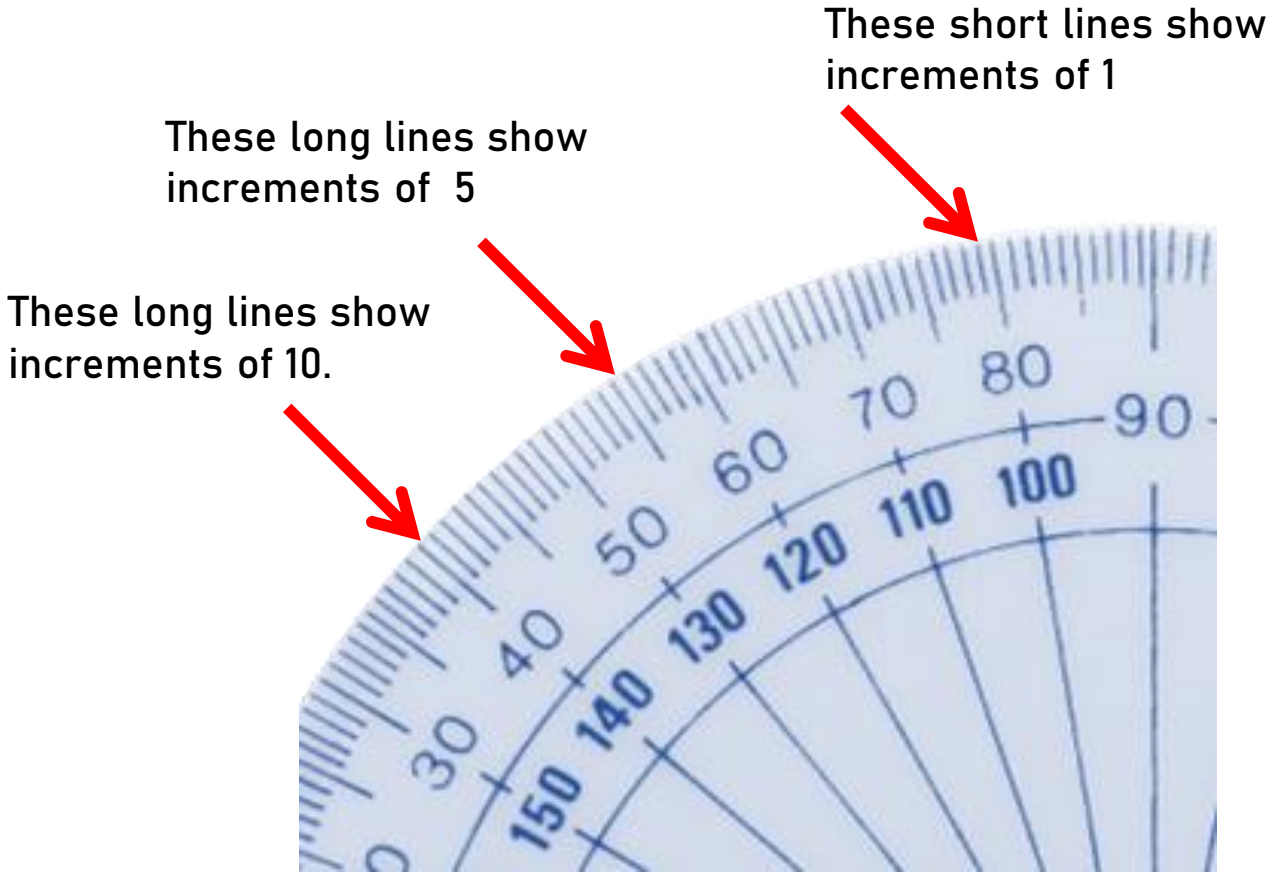
Inside
scale

Base line

Center
Line



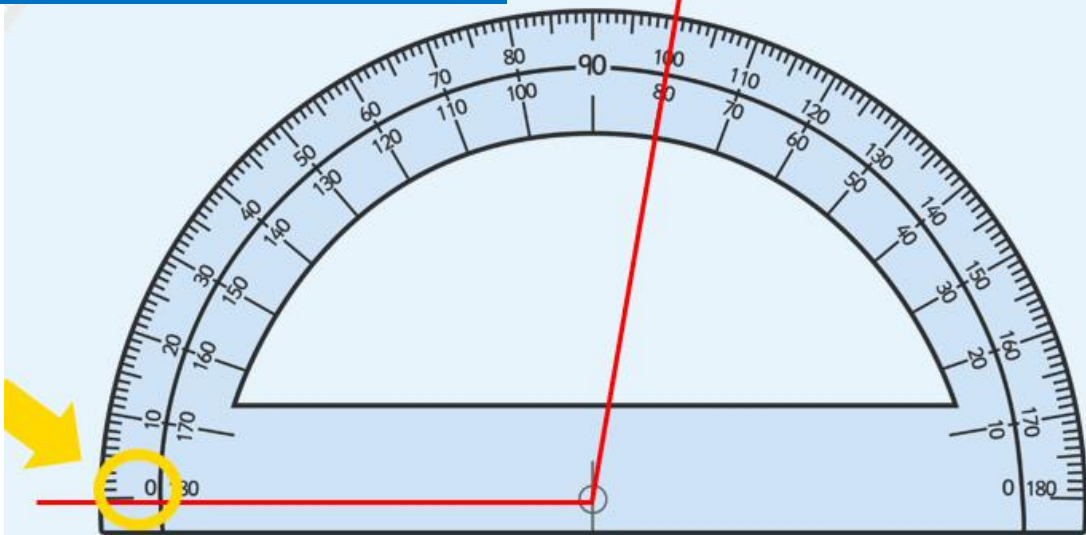
Reading scales



Using the correct scale

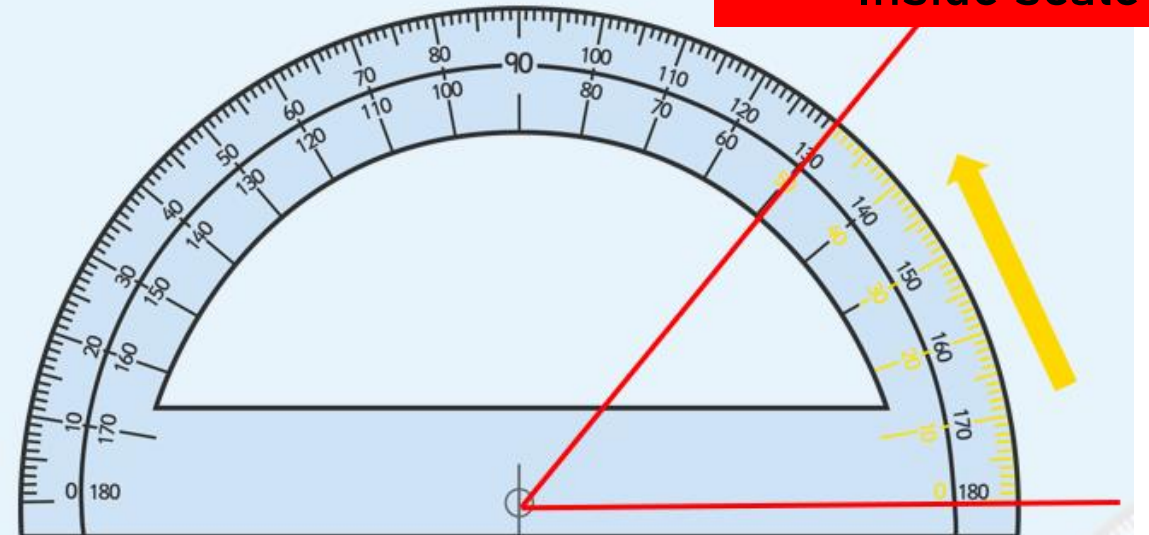
Read from the zero on the outer scale of your protractor.

Outside scale



If the angle that you are measuring turns in an anti-clockwise direction, you will need to use the inner scale of your protractor.

Inside scale



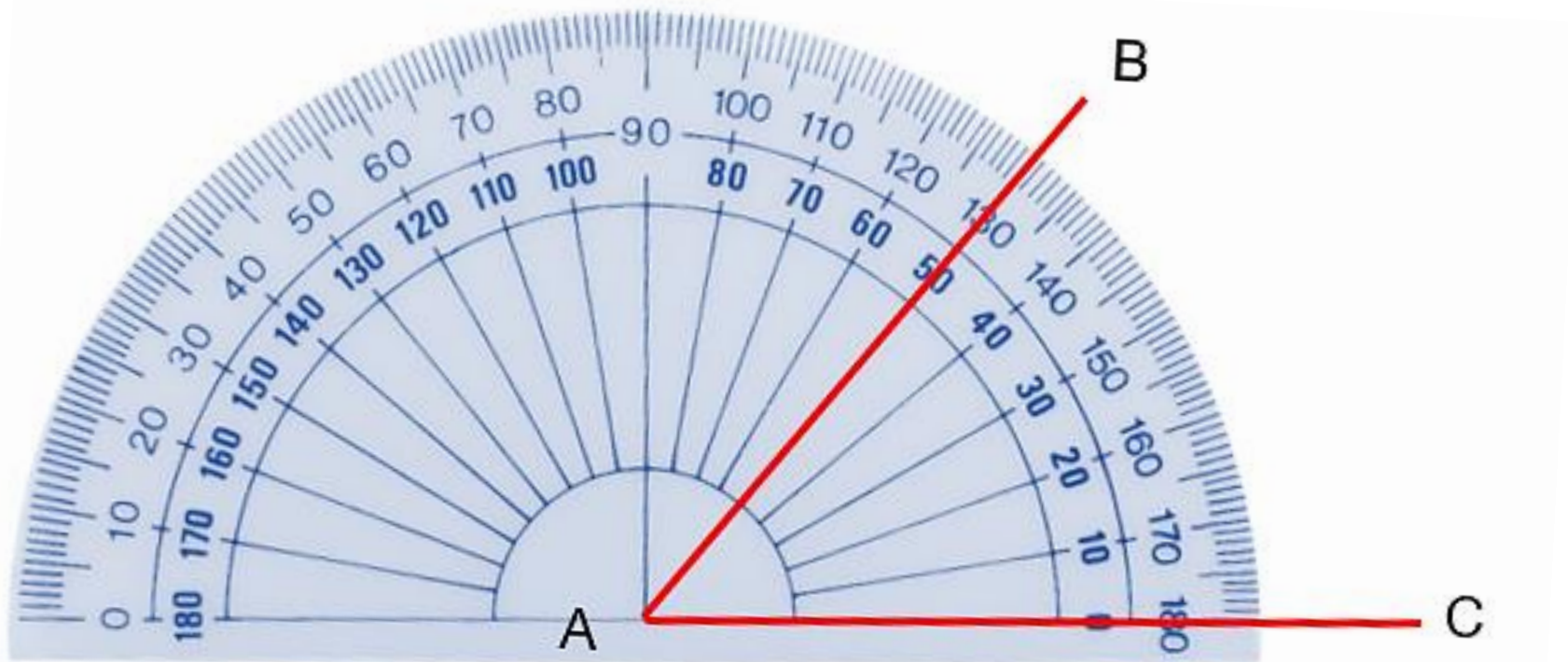


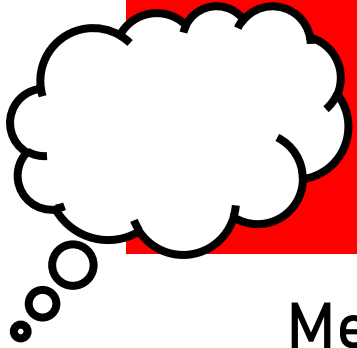
Measuring angles

Measure the size of this angle using the method taught.

What scale would you use? Why?

As a member of your family to double check your answer.

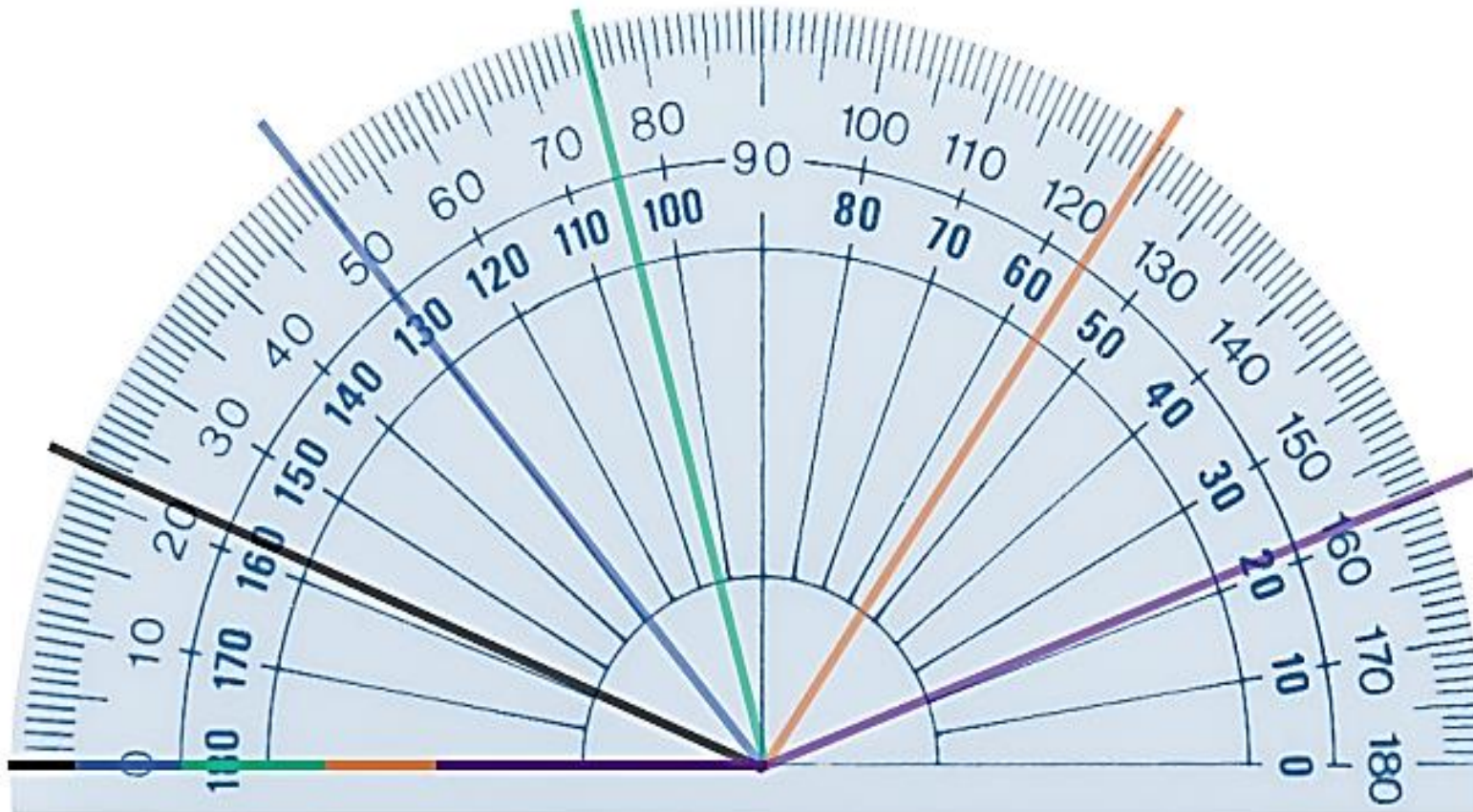


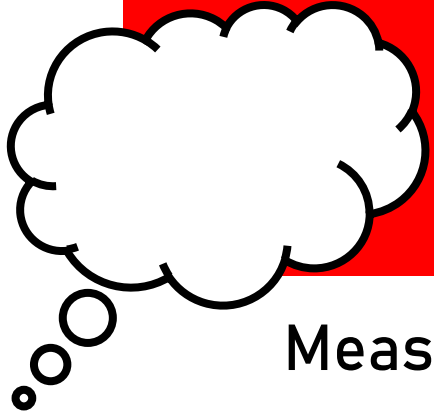


Measuring angles

Measure the size of each coloured angle using the method taught.

What scale would you use? Why?

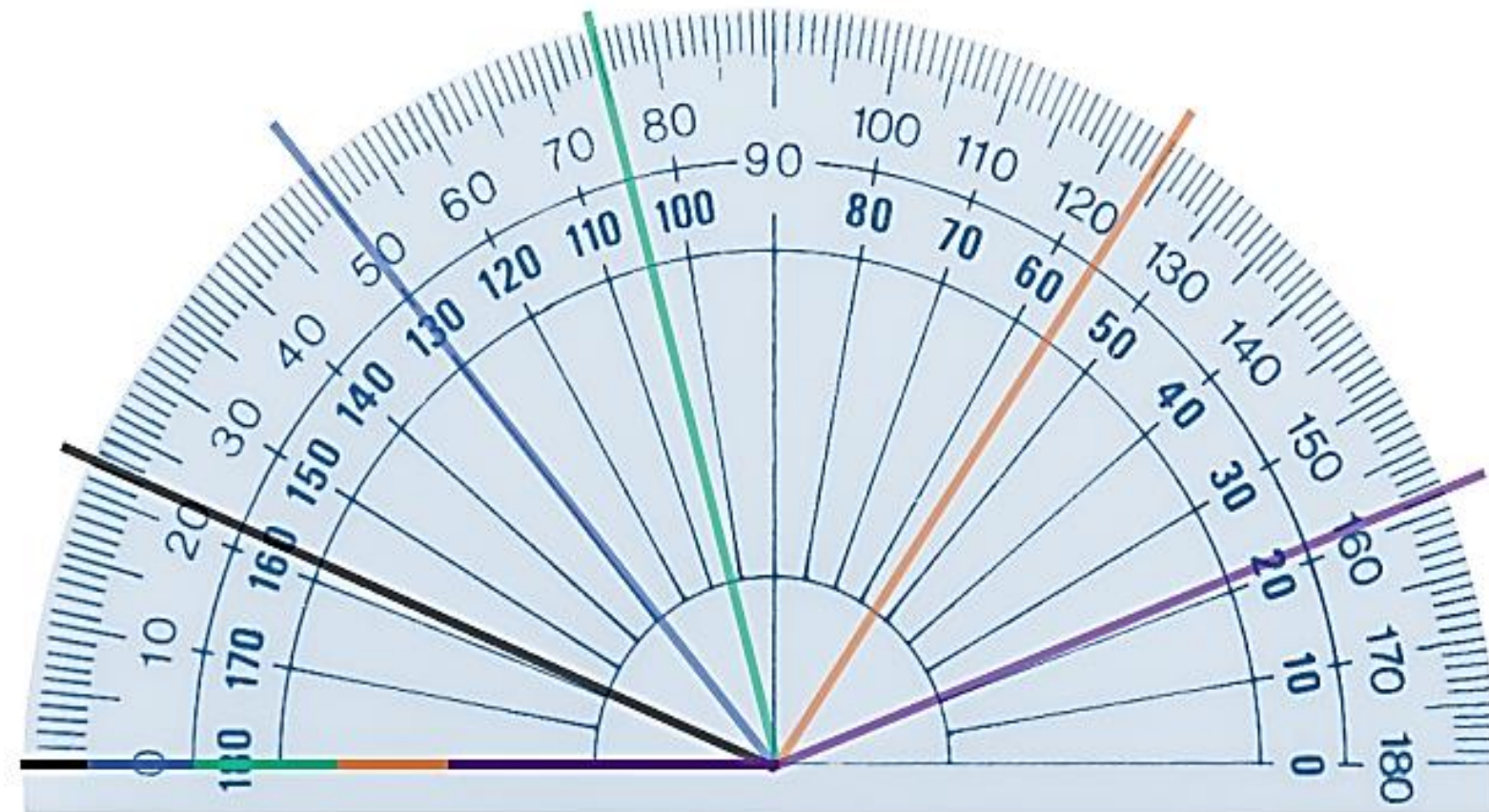




ANSWERS: Measuring angles

Measure the size of each coloured angle using the method taught.

What scale would you use? Why?



- Black: 22°
- Blue: 50°
- Green: 75°
- Orange: 124°
- Purple: 159°

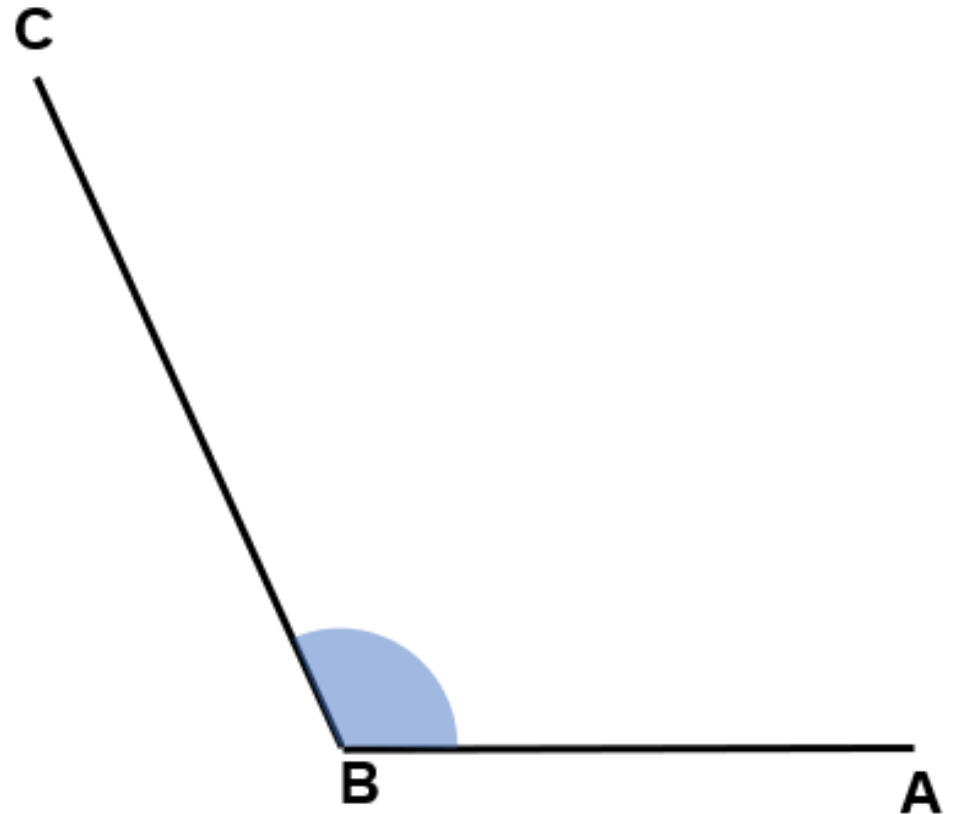
Measuring angles

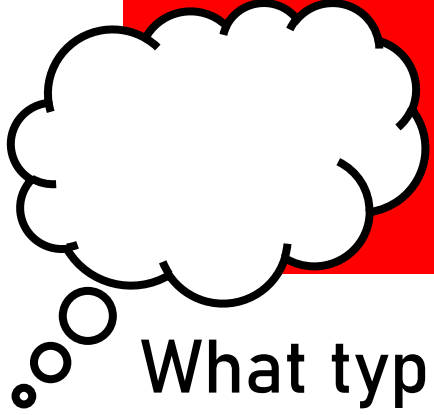


What type of angle can you see below?

How do we go about measuring the angle?

What is the size of the angle AC?





ANSWERS: Measuring angles

What type of angle can you see below?

Acute

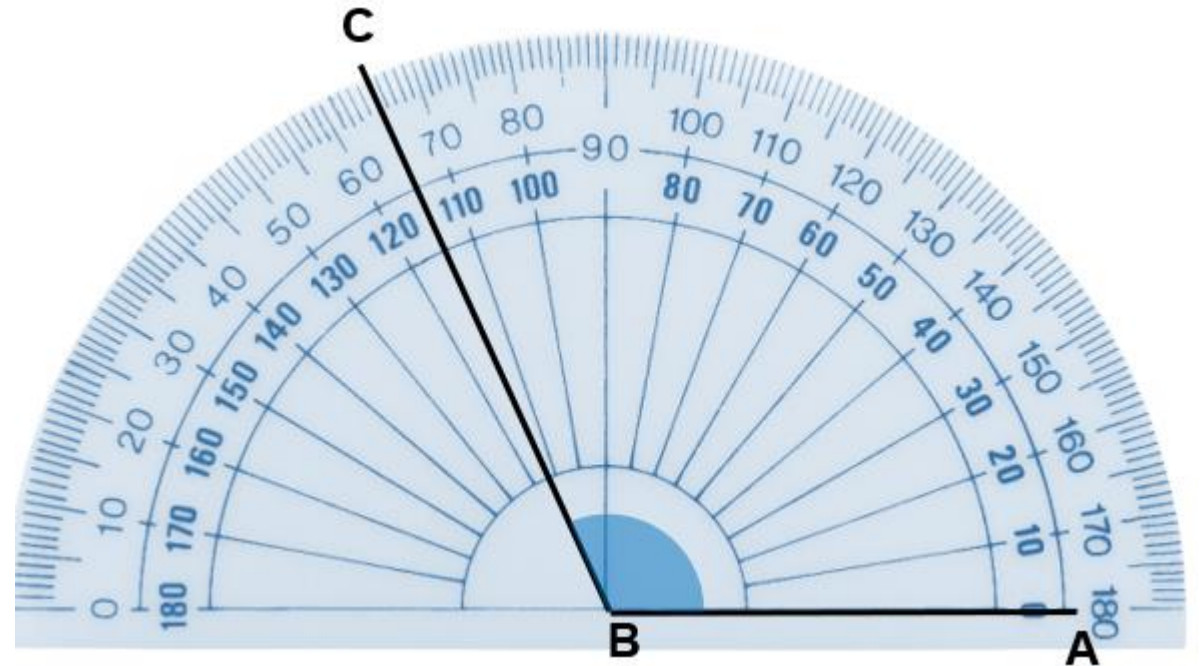
How do we go about measuring the angle?

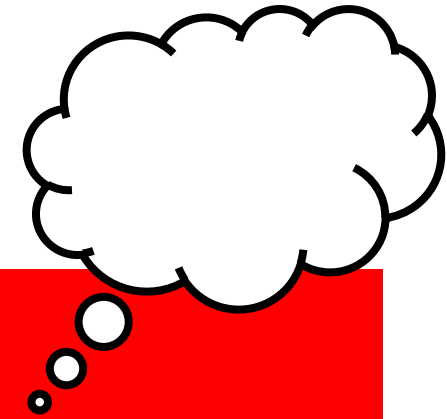
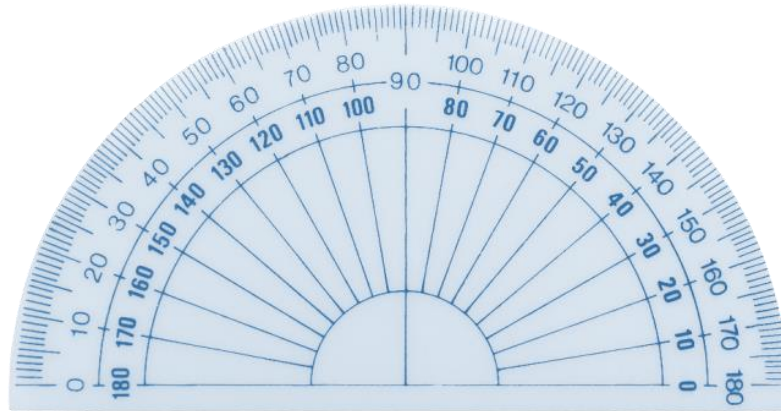
Use the inside scale

What is the size of the angle

AC?

115°

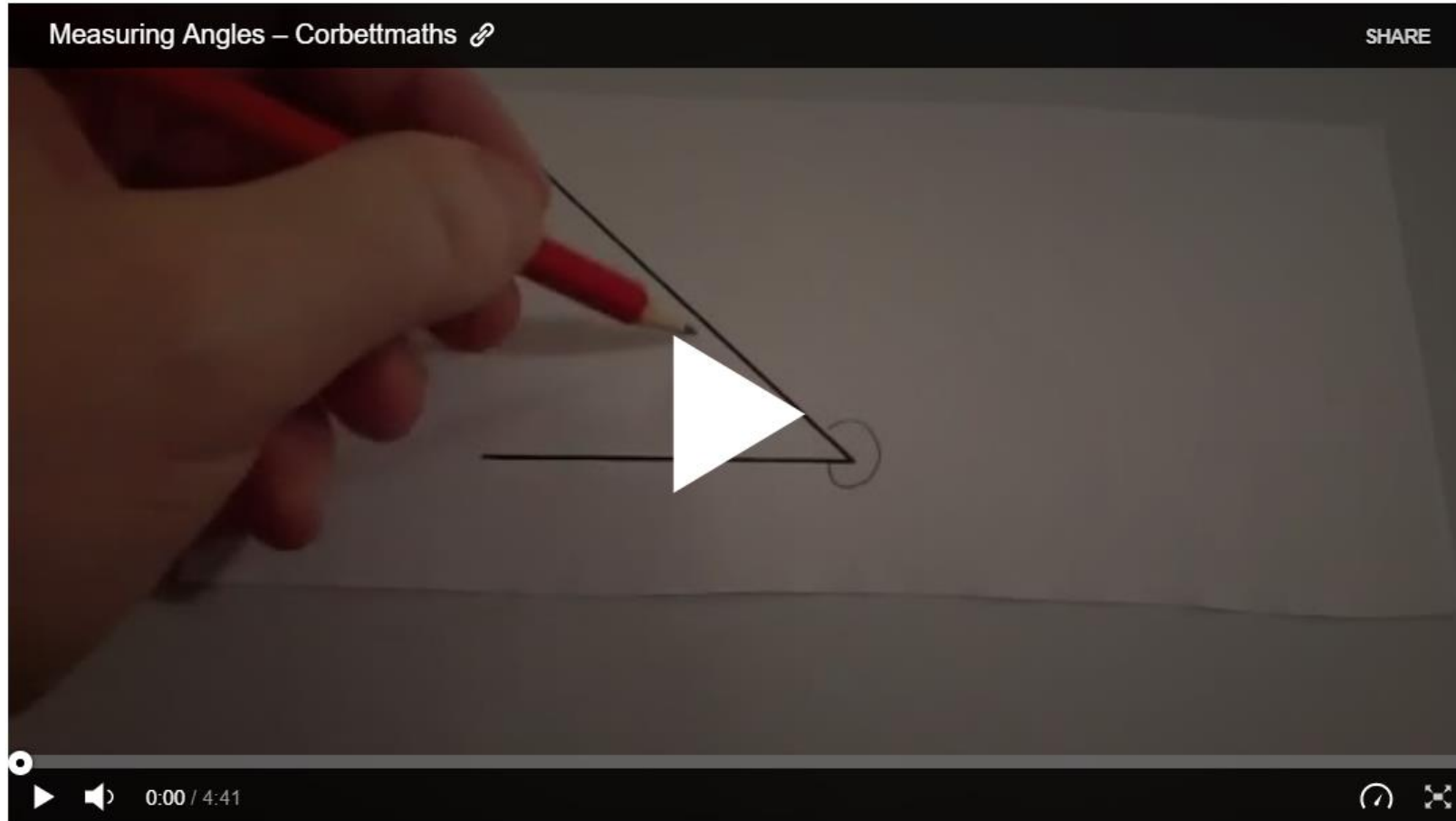




Evaluation


What mistakes might be made when measuring using a protractor?

A helpful revision video



<https://corbettmaths.com/2013/03/05/measuring-angles/>

Once you have finished turn this assignment in on Google Classroom.



Task

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/2013/03/05/measuring-angles/>

Lesson 1

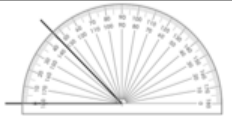
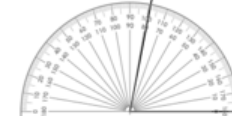

L.O I am learning to measure with a protractor.

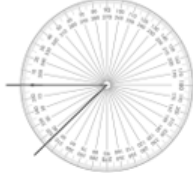
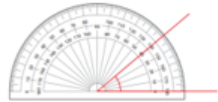
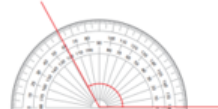

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Fluency

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
 The size of this angle is _____ degrees.	
 The size of this angle is _____ degrees.	
 The size of this angle is _____ degrees.	

 The size of this reflex angle is _____ degrees.				
What is the size of each angle? Circle your answer. a)  40° 140°				
b)  61° 119°				
8b. Fill in the blanks: An acute angle is between _____° and _____°.				
5b. What types of angles are these? 				
<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">acute</td> <td style="text-align: center;">obtuse</td> <td style="text-align: center;">reflex</td> </tr> </table>	acute	obtuse	reflex	
acute	obtuse	reflex		