

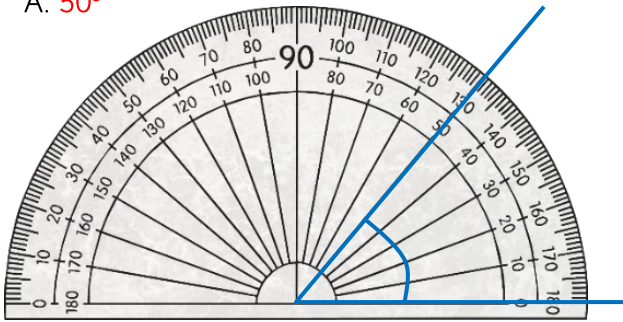
## L.O. To understand how to use a protractor **with ANSWERS**

### Layer 1 – Measure the angles

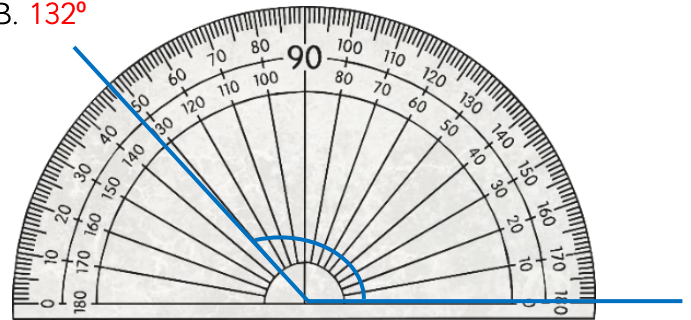
Ensure that you use the inner scale on the protractor.

If your answer is less than  $5^\circ$  either side of the given answer, you may mark it correct.

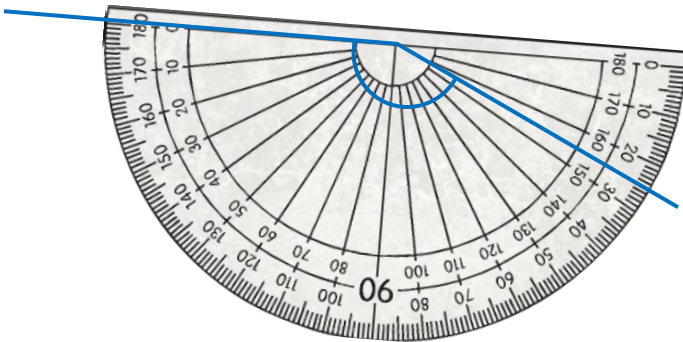
A.  $50^\circ$



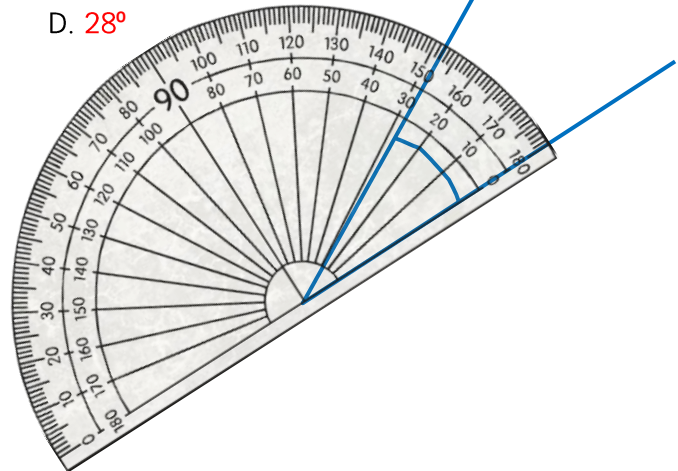
B.  $132^\circ$



C.  $155^\circ$

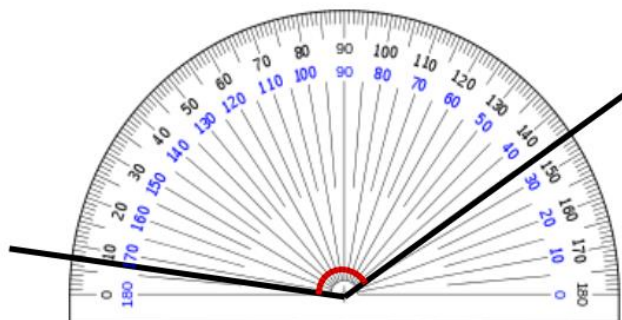


D.  $28^\circ$



### Layer 2 – Spot the mistake.

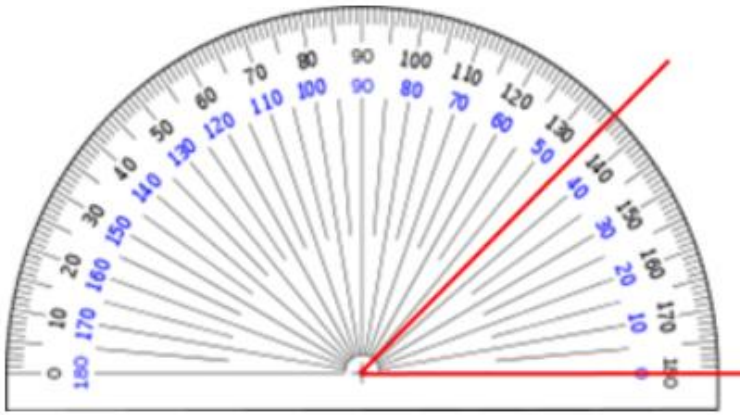
Rosie is measuring an obtuse angle. What mistake has she made when using her protractor? **Rosie has not lined up one of the lines with the zero line.**



### Layer 3 – Do you agree?

Elijah thinks the angle is  $135^\circ$ . Do you agree? Explain how you know.

I disagree with Elijah because he has read the wrong scale – you must always start measuring from 0. By reading the inner scale on this protractor, I know that the angle is  $45^\circ$ . I also disagree because this is an acute angle, so I know it must be less than  $90^\circ$ .



My angle measures  $135^\circ$



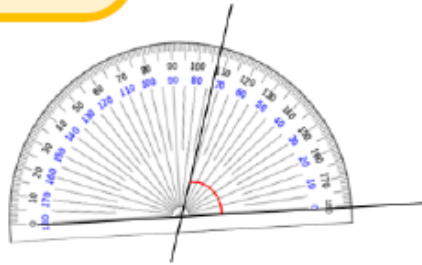
### Greater Depth – Who is using the protractor correctly?

Explain how you know.

You do not need to be able to read the scale on the protractors to answer this question!

I have measured the angle correctly because my protractor is the right way round.

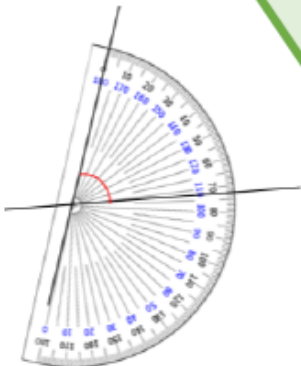
Teddy



Whitney



I have measured the angle correctly because my protractor is on the line accurately.



They are both correct. It doesn't matter which way the protractor is as long as it is placed on the angle correctly.