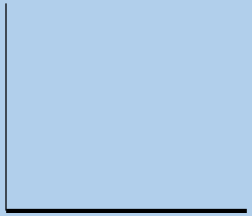
Hello again Year 5

We are going to continue our work on angles, but this time look at the skills needed to measure angles using a protractor.

LI: To recognise and measure angles

What is an angle?



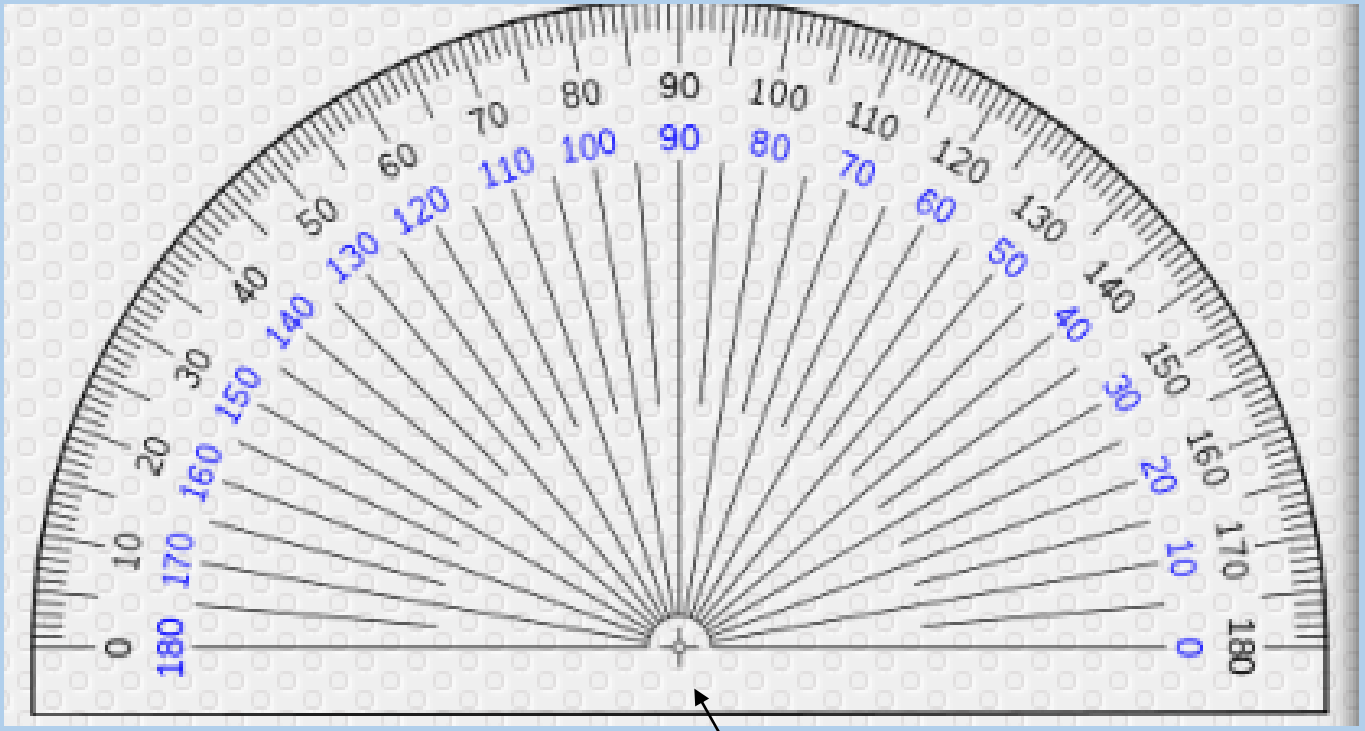
An angle is the space between two intersecting (joining) lines, it is measured in degrees

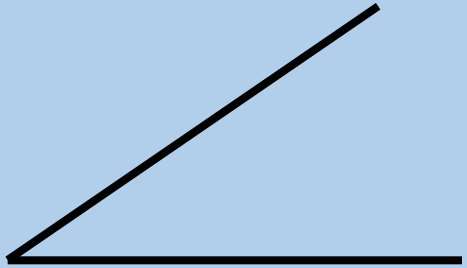
In geometry there are different types of angles,
*acute an angle between 0 and 90 degrees,
*right-angle a 90-degree angle,
*obtuse an angle that falls between 90 and 180 degrees
*straight angle one that is a line of 180 degrees.
*reflex angle an angle greater than 180 degrees

https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zg68k7h

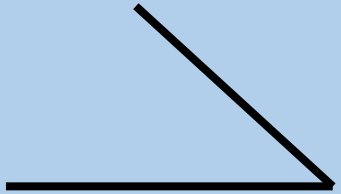
We can measure angles using a protractor.

The protractor has two scales – which can sometimes lead to confusion when reading the angle measurement.





To measure this angle, you would read the blue scale.



To measure this angle, you would read the black scale.

The point of your angle lines up with this cross and on the horizontal line Marked 0.

https://www.transum.org/software/SW/Starter_of_the_day/Students/Measuring_Angles.asp

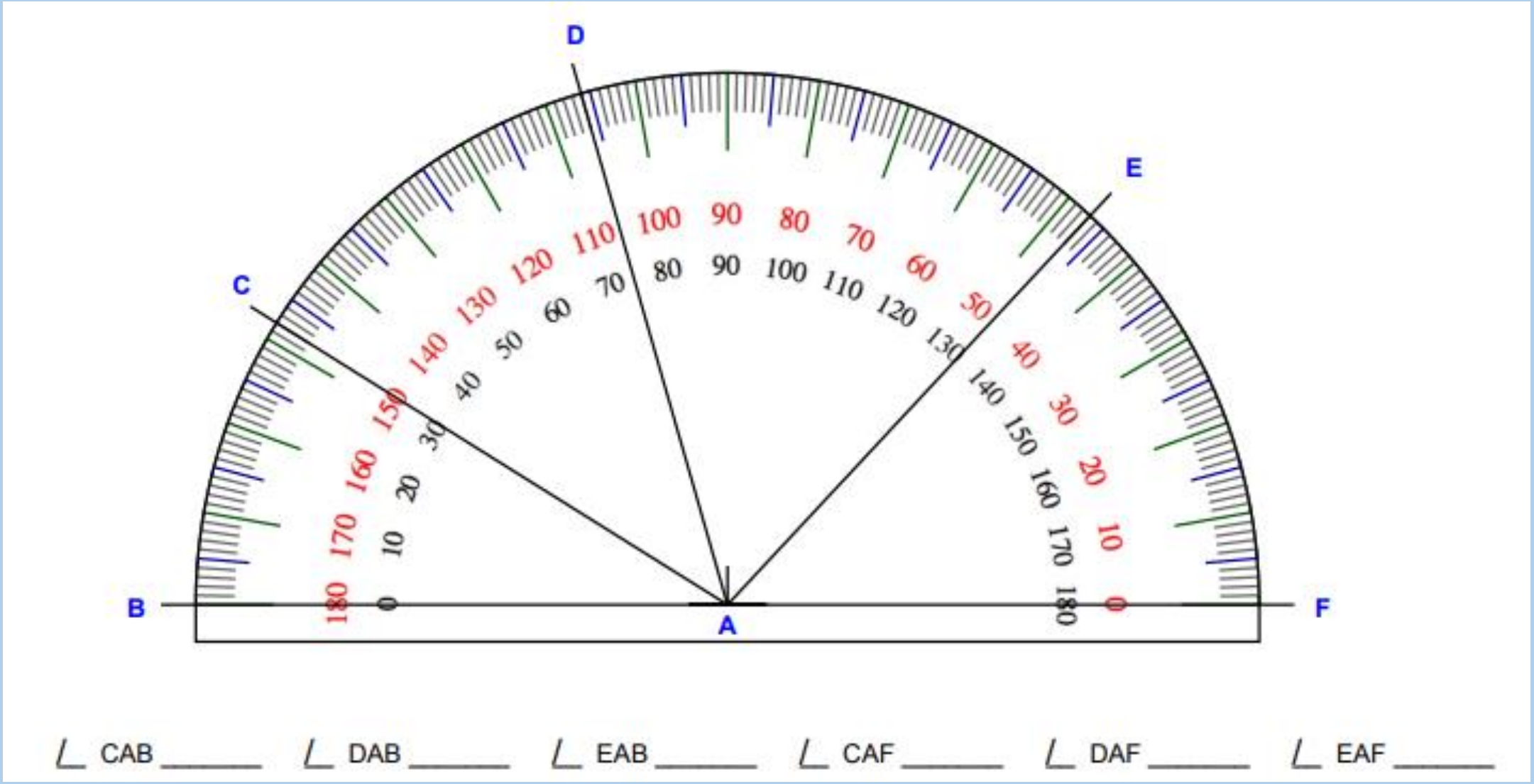
This website will allow you to practice using the protractor to measure angles.

You may only be able to answer some of the questions, as I have seen this does not work well on a tablet, because you need to hold down the shift key to rotate the protractor.

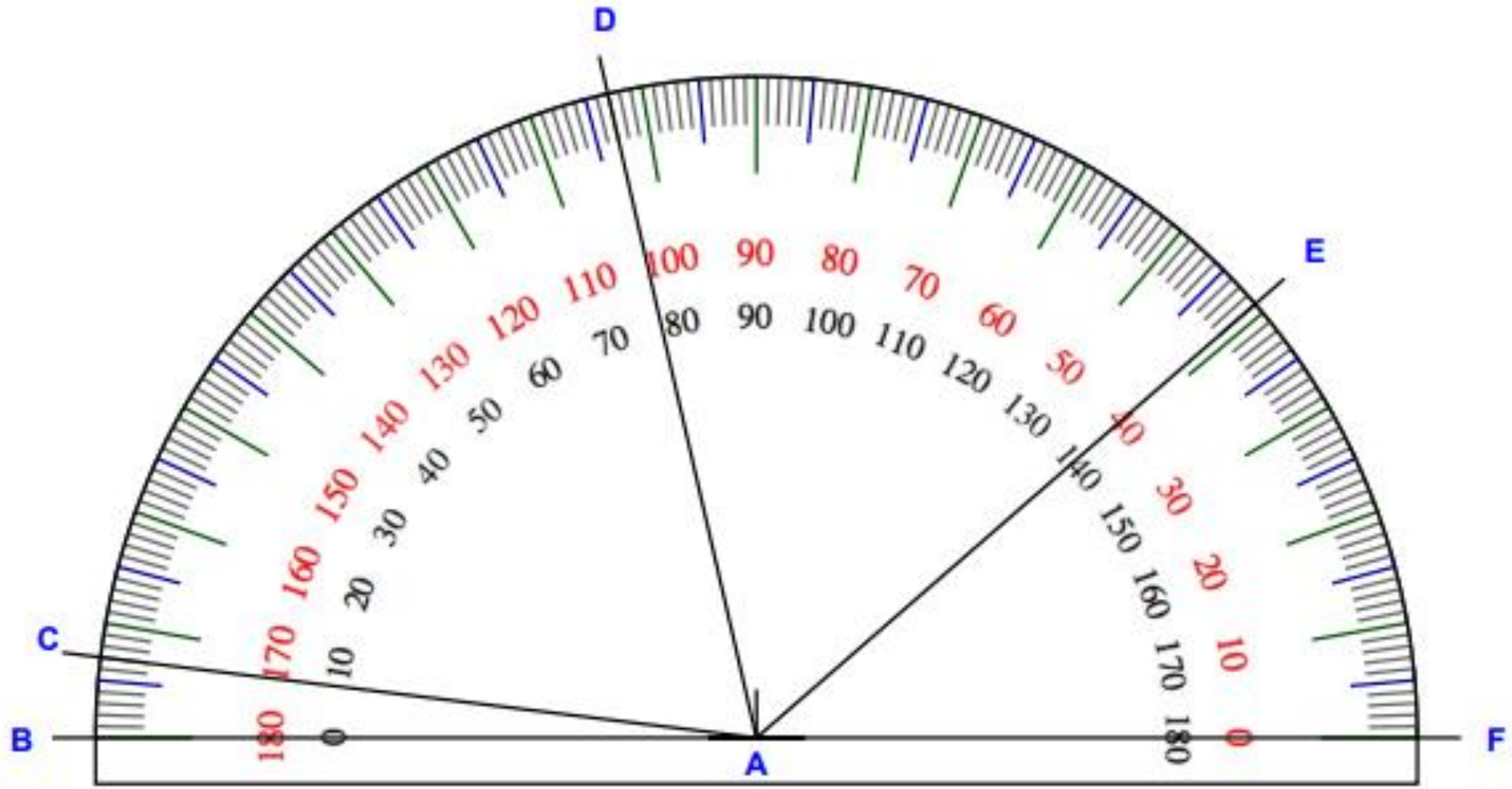
https://www.mathsisfun.com/geometry/protractor-using.html

This website has some short videos demonstrating how to use your protractor and allows you to measure some angles using a protractor, however not on a tablet.

Apologies I have struggled to find a website that allows you to do the measuring on a tablet or phone.



∠ CAB _____ ∠ DAB _____ ∠ EAB _____ ∠ CAF _____ ∠ DAF _____ ∠ EAF _____

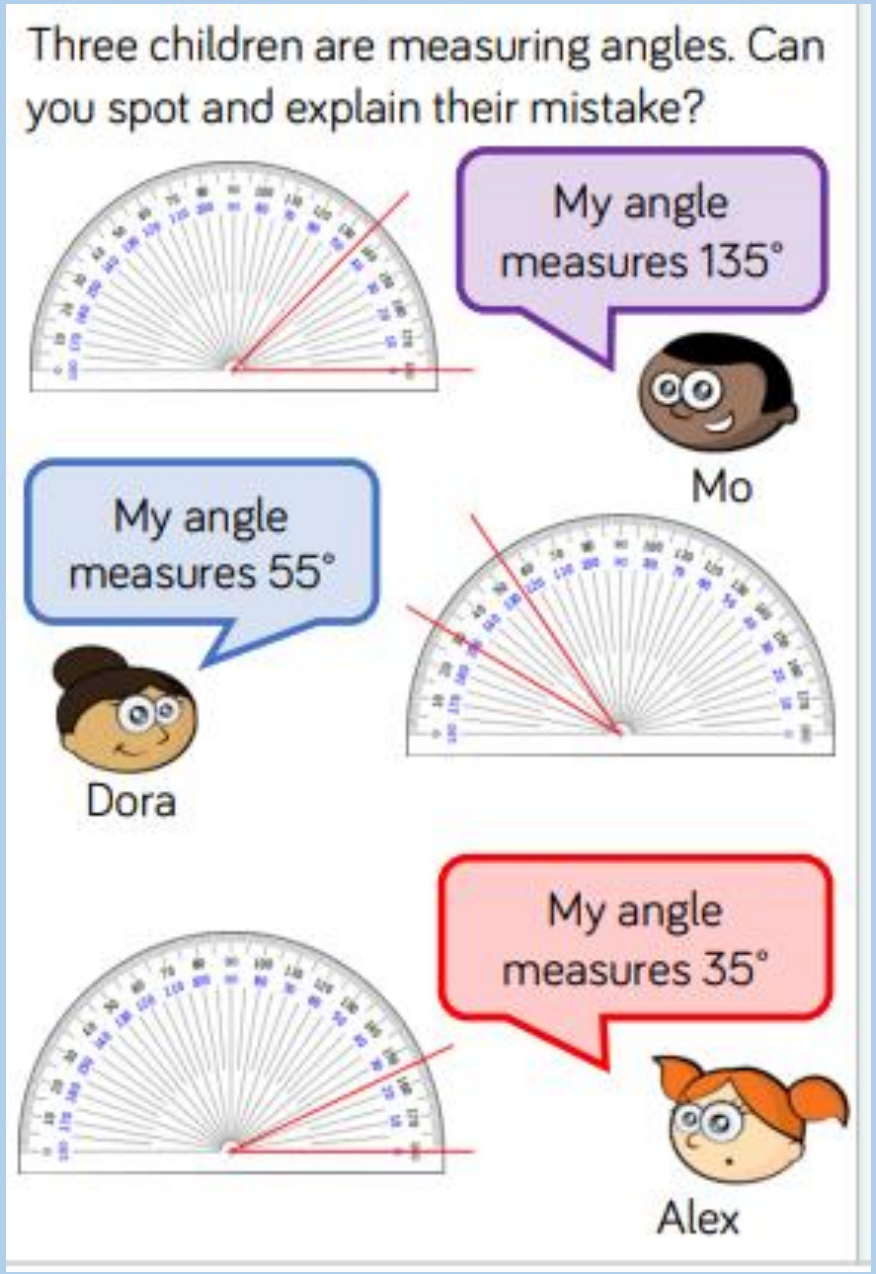


∠ CAB _____ ∠ DAB _____ ∠ EAB _____ ∠ CAF _____ ∠ DAF _____ ∠ EAF _____

https://www.mathplayground.com/alienangles.html

This website does seem to work on a tablet.
You must draw the slider along to make the ‘alien angle’ requested.
How close can you get?
Fire the rocket to see how far off you were in your estimate.

My best estimate was 1 degree out…who can get an exact angle????



See the next page for the answers.

Mo hasn't recognised his angle is acute, so his measurement is wrong.

Alex has not placed one of her lines on 0. Her angle measures 25°.

Dora has misread the scale. Her angle measures 25°.

https://www.math-aids.com/Geometry/Angles/Reading_Protractors.html

This is a link to creating more worksheets – if your parents (or you) feel that you need a bit more practice.