

WALT draw and measure given angles.

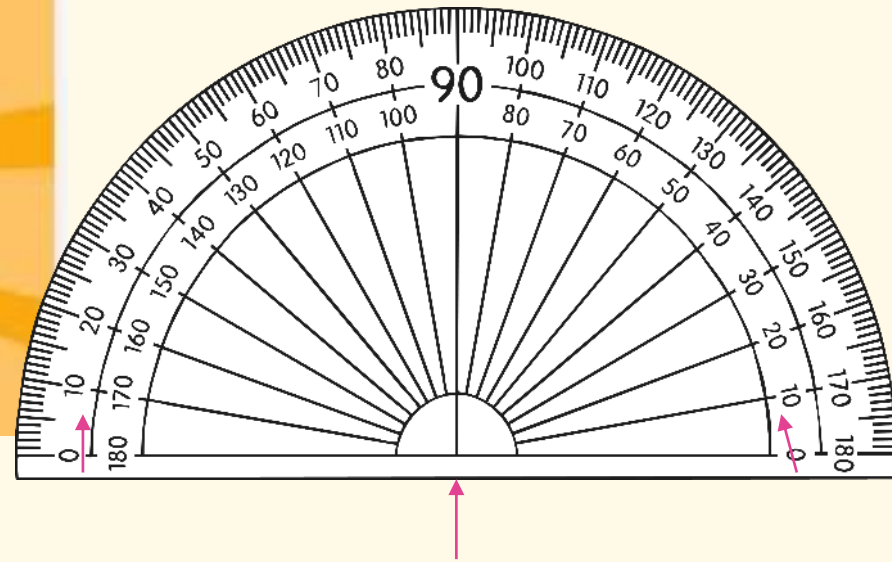
WILF:

- Line the protractor up carefully
- Measure the angle to the nearest degree
- Include the degree sign in your measurement.

Click the picture to recap angles and learn how to measure them.



Note: this video doesn't show reflex angles, which are angles that are between 180 and 360 degrees.



On a protractor, there are two number lines - you can use either: follow the zero you started at around as the numbers increase to select the correct number for your degree measurement.

Line the vertex up with the middle line before measuring.

- To measure over 180 degrees, you need a full circle protractor.

If you do not have a protractor at home, here are 3 options:

1) With an adult download a free virtual protractor on your device.

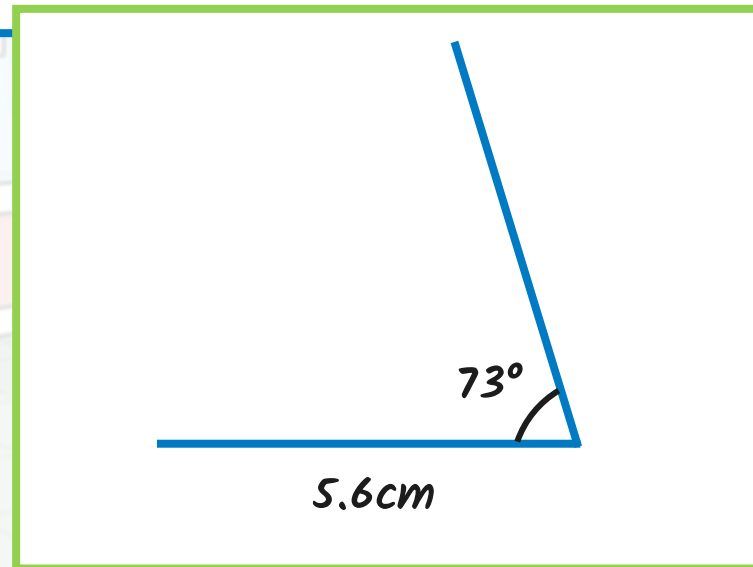
2) Print out an image of a protractor and cut it out.

3) Practise measuring angles here:

<https://www.mathplayground.com/measuringangles.html>



Draw an angle of 73° where one line measures 5.6cm.



Measure it again.

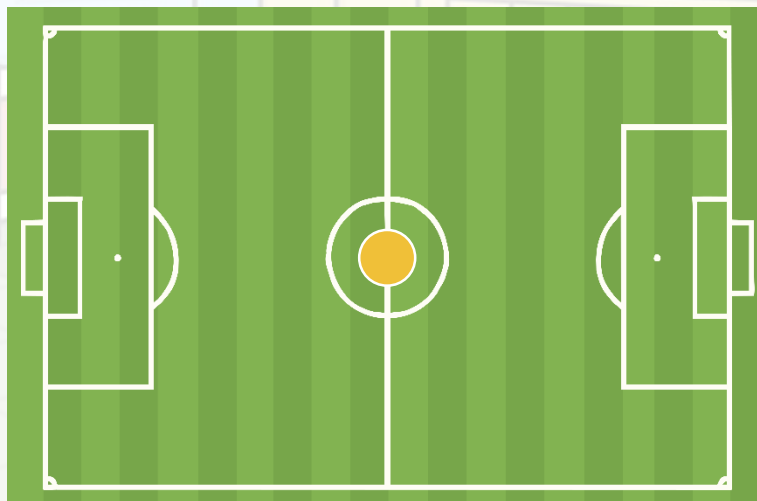
If there are any errors, why do you think this is?

Drawing Lines and Angles Accurately



Imagine the midfielder standing on the yellow centre circle is facing the right-hand goal. One of his defenders is 110° anticlockwise.

What could you do to work out roughly where the defender is?

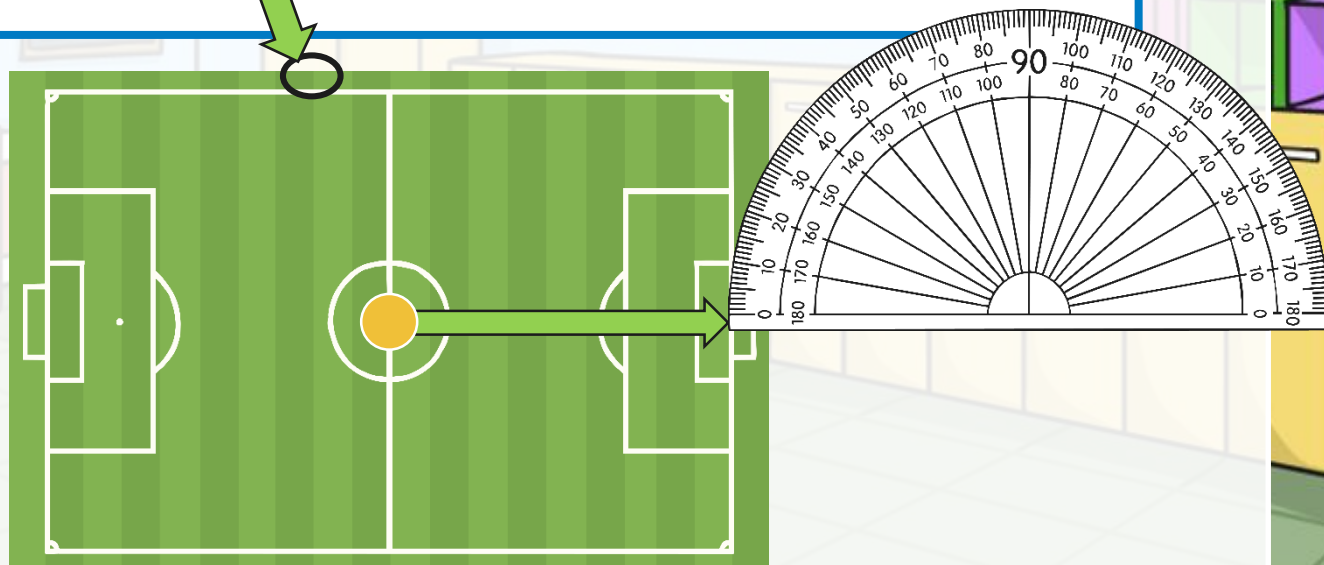


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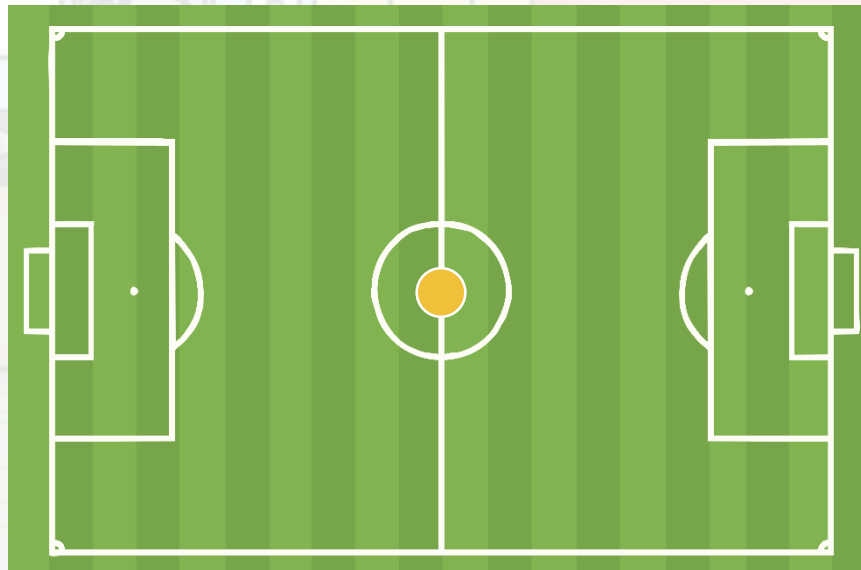


You need to draw a line from the circle to the goal and then use your protractor to measure an angle of 110° anticlockwise.

Drawing Lines and Angles Accurately



If this defender is standing 3.7cm away from the centre circle, what would you need to do now to plot his exact position?

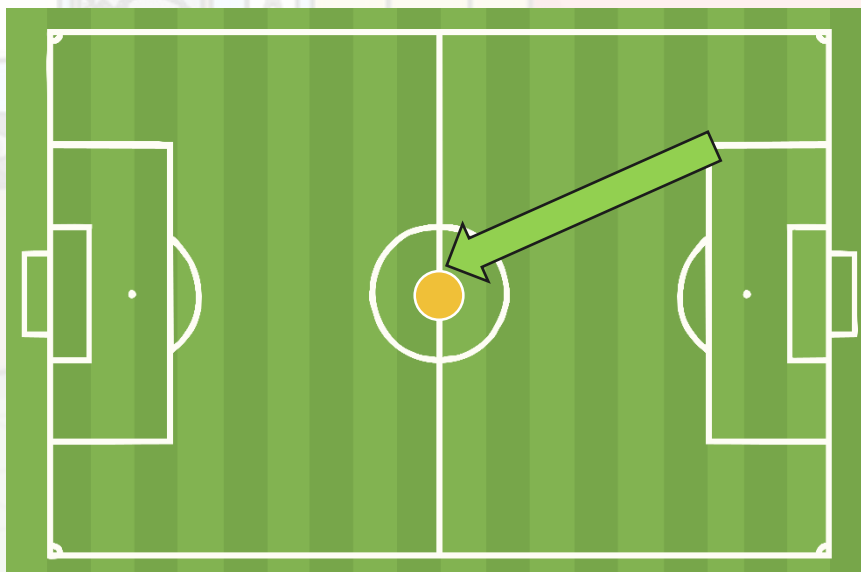
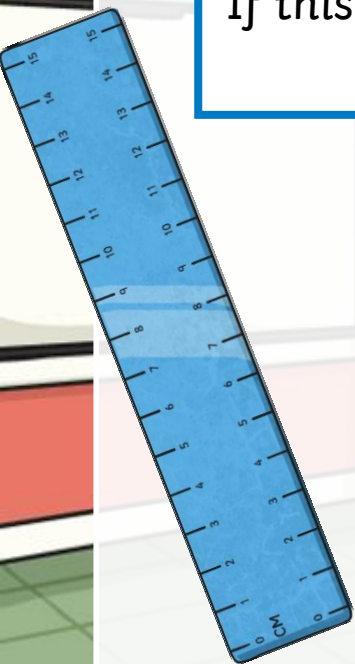


Drawing Lines and Angles Accurately

Deeper



If this defender is standing 3.7cm away from the centre circle, what would you need to do now to plot his exact position?



You would need to use a ruler and place this accurately joining the centre circle and the mark drawn from measuring 110° , ensuring the ruler starts with 0 on the centre circle (or mark). You would then measure 3.7cm and mark this with a pencil.

Drawing Lines and Angles Accurately

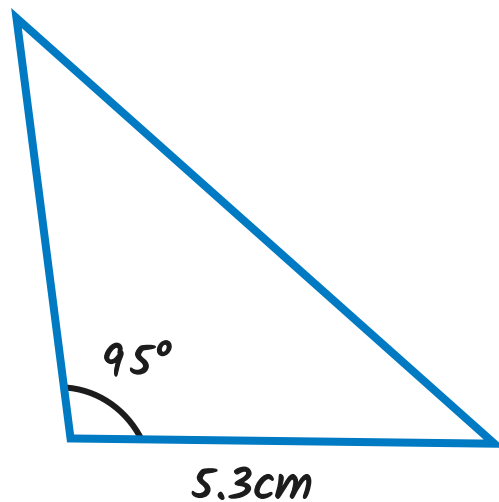


Draw a triangle with one side measuring 5.3cm and a vertex of 95° .

Drawing Lines and Angles Accurately

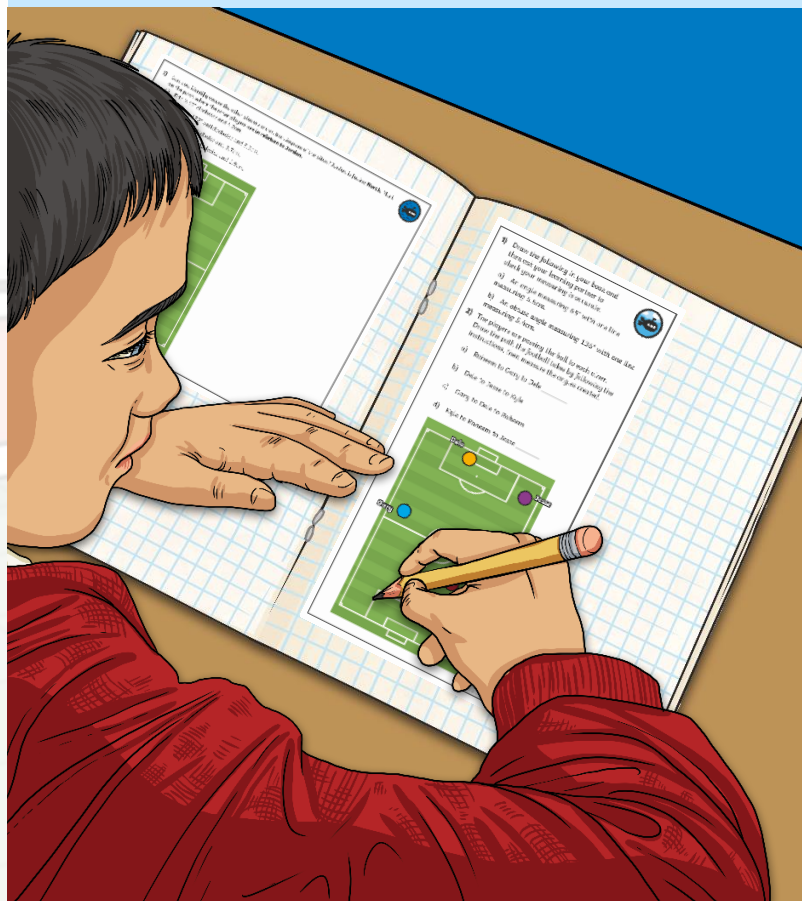


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Drawing Lines and Angles Accurately

Please complete today's activity: Week 5. Maths. Friday Activity.



1) Draw the following and then ask your learning partner to check your measuring is accurate.

- An angle measuring 65° with one line measuring 8.5cm.
- An obtuse angle measuring 135° with one line measuring 5.4cm.

2) The players are passing the ball to each other. Draw the path the football takes by following the instructions, then measure the angles created.

- Raheem to Gary to Dele
- Dele to Jesse to Kyle
- Gary to Dele to Raheem
- Kyle to Raheem to Jesse

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