

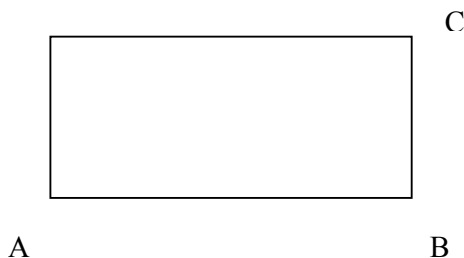
The longest side

Worksheet

Equipment: trundle wheel, pencil and paper

Things to do outside

Your group is to start at one corner of a sports field. Where you are standing can be called point A. Point B is the other end of the touch line, while point C is opposite B, but 'on the diagonal' from A.



- 1) Predict - which is furthest away from where you are standing - point B or point C? (If you think they are an equal distance away, you can say this). Explain your reasoning for your answer.
- 2) Is the distance from A to C bigger, equal to or shorter than the distances from A to B and B to C added together? Explain your reasoning for your answer.
- 3) Use a trundle wheel to measure the distance from A to B, from B to C and from C to A.

In the classroom

- 4) Write up your work for questions 1 to 3 neatly. For question 3, start by drawing a triangle in your maths book and label it ABC. Write the lengths you measured on the correct sides of the triangle.
- 5) Using your measurements see if your predictions were right.
- 6) If AB means the side from A to B, check to see which of the following statements are true
 - Is $AB + BC$ bigger than AC ?
 - Is $AC + AB$ bigger than BC ?
 - Is $AC + BC$ bigger than AB ?What have you learned from doing this?