Construction and Loci

Challenge Sheet

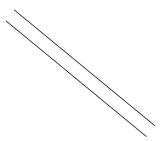
Complete as many of the following challenges as you can, as a group, making a note of the shapes you produce for each one. You will also be expected to demonstrate one of thes

nplete as many of the following challenges as you can, as a group, making a note of shapes you produce for each one. You will also be expected to demonstrate one of se shapes to the rest of the class.	 In your group, stand exactly 2m a wall around a corner. Draw and describe the shape you have created:
 In your group, stand exactly 2m from one member of your group. Draw and describe the shape you have created: 	
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	This can give the locus of points a fixed distance from a rectangle.
This is the locus of points a fixed distance from a point. 2. In your group, stand exactly 1m away from a straight wall. Draw and describe the shape you have created:	4. In your group, stand exactly the same distance away from two members of your group. Draw and describe the shape you have created:
	•
This is the locus of points a fixed distance from a line.	This is the locus of points equidistant from two fixed points.

5.	 In your group, stand within 2m of one member of your group. Draw and describe the area you have created: 	
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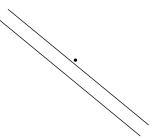
This is the locus of points within a given distance of a point.

In your group, stand no further than 1m away from a straight wall. Draw and describe the area you have created:



This is the locus of points within a given distance of a line.

In your group, stand at least 1m away from a straight wall, and within 2m of a
person standing beside the wall.
 Draw and describe the area you have created:



This is the locus of points which satisfy both conditions.

8. Design your own conditions, either by combining those used in these challenges or creating new ones altogether. Draw and describe the area you have created: