*There is a template for each question at the end of this exercise

**Workout**

Question 1:

The diagram shows Lindsey’s garden. Lindsey is deciding where to place a bench

Show the possible positions of the bench for each rule below

(a) The bench is 1 metre away from the wall.
(b) The bench is less than 2 metres away from the fence.
(c) The bench is 2 metres away from the tree.
(d) The bench is less than 2.5 metres away from the tree.
(e) The bench is an equal distance (equidistant) from the tree and the well.
(f) The bench is closer to the well than the tree.
(g) The bench is an equal distance from the wall and the fence
(h) The bench is closer to the wall than the fence.
(i) The bench is less than 2 metres from the wall **and** less than 3 metres from the tree
(j) The bench is closer to the fence than the wall **and** more than 1 metre from the well.

Question 2:

Shown is a map of an island. Show the possible position of each item.

(a) The stadium is equidistant from Redville and Newtown

(b) A ship is less than 2 miles from the harbour

(c) A helicopter is 6 miles from the harbour **and** 4 miles from the airport.

(d) A church is closer to Redville than Newtown **and** is more than 3 miles from the airport

(e) A lighthouse is equidistant from Newtown and the harbour **and** is on the coast.

(f) A windmill is less than 4 miles from Redville **and** less than 4 miles from Newtown **and** less than 4 miles from the Airport.

(g) A hot air balloon is between 5 miles and 7 miles from the harbour

(h) A farm is equidistant from the airport and Redville **and** equidistant from the airport and the harbour.

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Question 1:

(a) 

(b) 

(c) 

(d) 

(e) 

(f)
Loci
Videos 75, 76, 77 on www.corbettmaths.com

Question 2
(a)

(b)
Loci
Videos 75, 76, 77 on www.corbettmaths.com

(c) ![Diagram of a location showing Redville, Newtown, and Harbour with a scale of 1cm = 2 miles.]

(d) ![Diagram of a location showing Redville, Newtown, and Harbour with a scale of 1cm = 2 miles.]

(e) ![Diagram of a location showing Redville, Newtown, and Harbour with a scale of 1cm = 2 miles.]

(f) ![Diagram of a location showing Redville, Newtown, and Harbour with a scale of 1cm = 2 miles.]

(g) ![Diagram of a location showing Redville, Newtown, and Harbour with a scale of 1cm = 2 miles.]

(h) ![Diagram of a location showing Redville, Newtown, and Harbour with a scale of 1cm = 2 miles.]

Answers

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