





16. The diagram shows a small boat out at sea. From the top of a cliff the angle to the boat is 48° .

Use the information in the diagram to find how far the boat is from the base of the cliff.

17. A barber's pole 120 centimetres long is connected to a wall. The end of the pole is 90 centimetres from the wall.

Calculate the angle the pole makes with the wall.

18. The diagram shows 3 points on an orienteering course. The points form a right-angled triangle.

Given the information in the diagram, calculate d.

19. The diagram shows the side view of a garden shed. The back wall of the shed is 2.6 metres high and the front wall is 2.2 metres high. The sloping roof of the shed is 1.3 metres long.

Calculate the size of angle a⁰, the angle the roof makes with the horizontal.

20. A flagpole DE, 3 metres high, is situated at the corner of a rectangular field, ABCD.

The flagpole casts a shadow over the field. The shadow reaches M, the midpoint of BC.

Calculate the size of the shaded angle.

