

Fire Alarm!

You need: construction materials such as iceblock sticks and glue (for the model of the lookout), 1 centimetre grid paper

ACTIVITY

The phone goes at Counter Catastrophe. Chinda, the fire expert, takes the call.

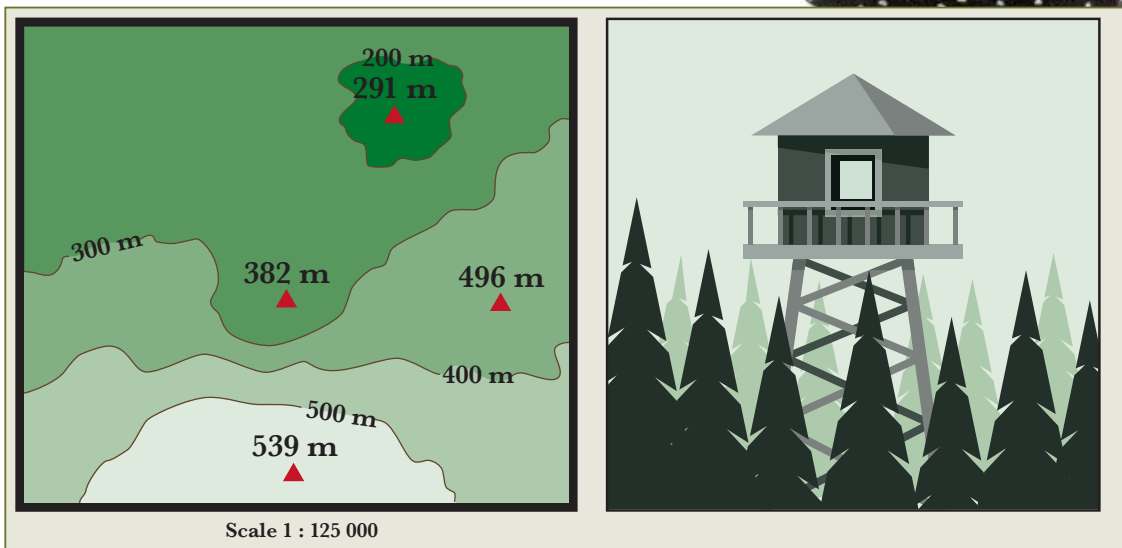
Hi, Chinda. Jack Lumber here, manager of Woodsafe Forest. It looks as if we're in for a long, dry summer, and forest fires could be a real issue. I need help with the construction and placement of a lookout so that we can keep watch.

Not a problem, Jack.

I need to know the area of the forest and the age and height of your trees. I also need a land contour map of the forest area.



Here is the map Jack sent to Chinda.
(Woodsafe Forest covers the whole area of the map.)



1. What is the size of the forest in hectares?
(1 hectare = 100 metres x 100 metres)
2. Pine trees are nearly fully grown at 28 metres and reach 32 metres when mature. Where should Chinda place a fire lookout? Give a reason for your answer.
3.
 - a. Design a fire lookout for Woodsafe Forest.
 - b. Build a scale model of your lookout. Use a scale of 1 : 200.
 - c. Draw a 3-dimensional diagram of your lookout.