

# TALKY TOWERS

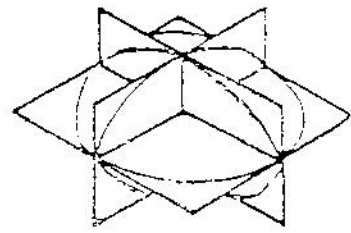
## SITUATION:

You are ship wrecked on a deserted island (sand bar) and you find the following materials that might help you build a device for making your whereabouts known.

- 1 sheet of composite material board 3 Index cards
- 1 old saw 5 Scars
- 4 meters of seaweed 1m Tape and 2m string
- 1 piece of aluminium

As your position is likely away from the shipping lanes your best hope is a radar beacon, held as high as possible. You know 2 important facts (ideas) shown in the diagrams below.

1. A high return radar shape has 90 degree surfaces.



2.  $\sqrt{H}$  ft.  $\approx$  D (naut. mi.)



DESIGN BRIEF: Design and construct the tallest tower  
with the listed materials given