Name _____   Class _____

3 Round the bend

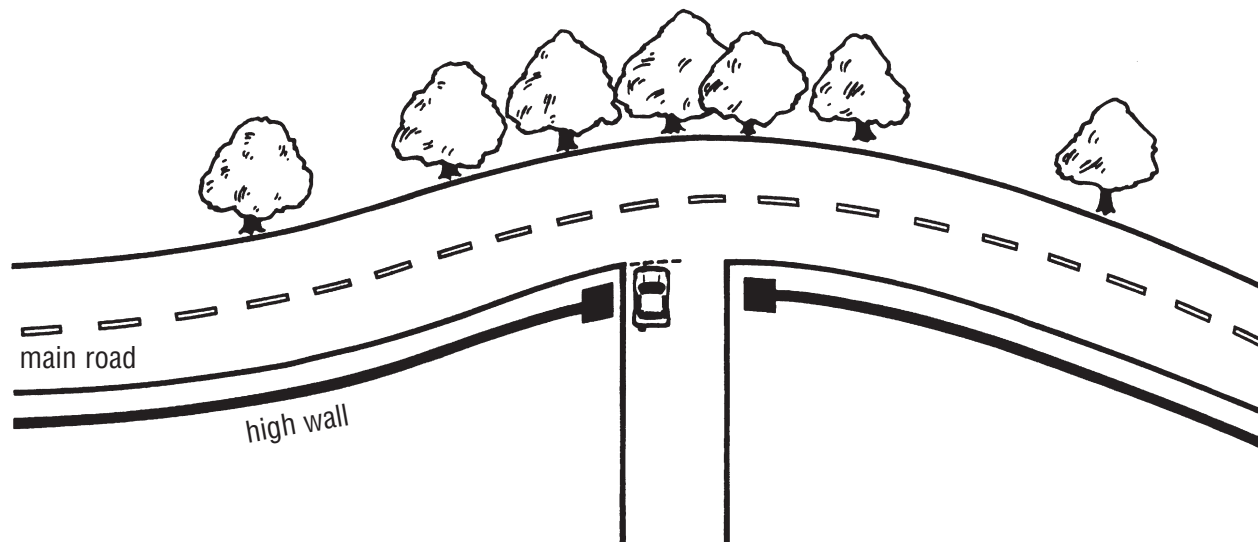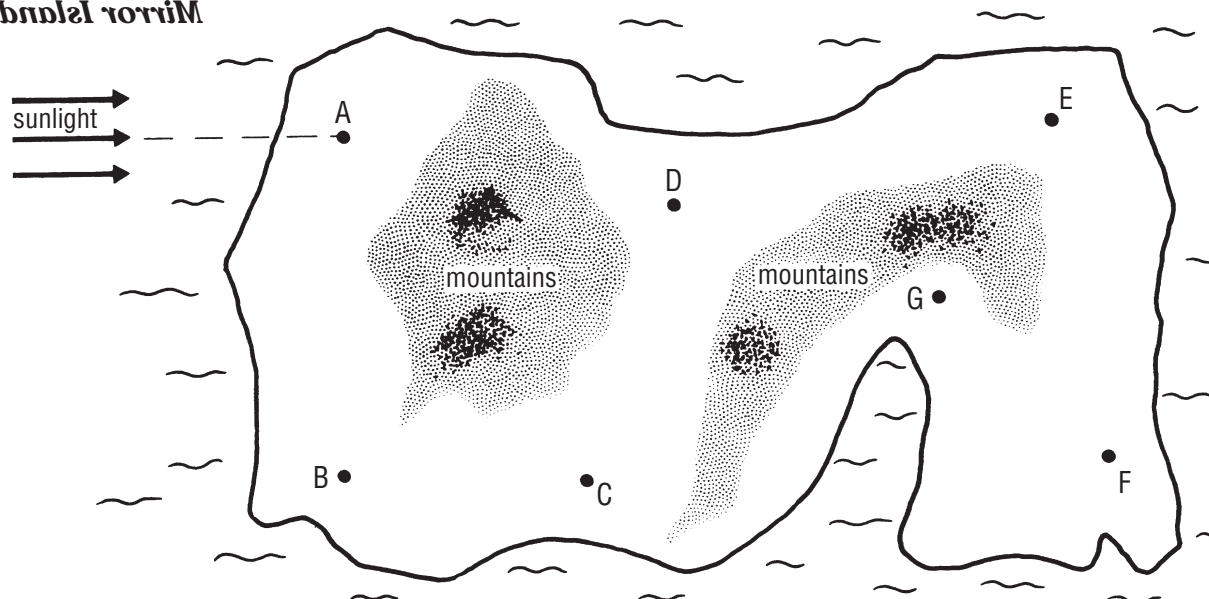main road

high wall

This plan shows a dangerous road. A car-driver coming out of the side road cannot see the traffic on the main road, because of the high wall.

a) Draw 2 plane mirrors, placed so that they help the car-driver.
b) If you have time, use 2 plane mirrors and a ray-box on this sheet of paper, to check that it works.
c) How could you use one convex mirror instead of the 2 plane mirrors?

4 Mirror Island

sunlight

A
E
D
mountains
mountains
G
B
C
F

On this map,
a) Complete the light ray from the Sun to A, then B,C,D,E,F,G in that order.
b) Draw a mirror at each position, at the correct angle to reflect the ray.
c) How could a person at A send a message to someone at G?
d) If you have enough mirrors, and a ray-box, put them on this sheet and send a ray from A to G, to check that it works.