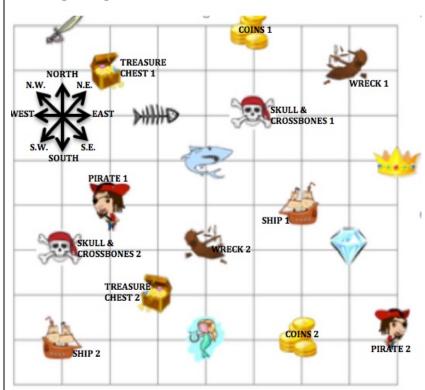


## AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES

## SCHOOLS ENRICHMENT CENTRE (AIMSSEC)

### **AIMING HIGH**

# **NAVIGATION**



Pirate 1 sails:
3 squares North,
then diagonally
1 square South East,
2 squares North East,
2 squares South,
1 square South West,
4 squares East
then 4 squares south.

Where does he get to and what does meet on his journey?

Using the 8 compass directions, describe a route for Pirate 2, in which he picks up everything in the picture and returns to his starting point. He refloats the wrecks and all the ships join his fleet.

### **HELP**

In the description of the journey, crossing a square always goes from one corner to another corner of the square. This is either going along one of the edges going North, South, East or West or alternatively going along a diagonal going North East, South East, South West or North West. The distances are not the same because crossing a square from corner to corner is longer than a step along one edge of the square.

### **NEXT**

Create and draw an island with hidden treasure and give instructions for finding the treasure.