DO YOU KNOW SET 3

1. loc1.getRow()
2. false
3. (4,4)
4. 135
5. The direction is given in the parameter. The getAdjacentLocation then finds the closest location on the grid.

DID YOU KNOW SET 4

1. if a is an object, then:

a.getOccupiedLocations().size()

to find the number of unoccupied locations, you can subtract this from the total locations available:

1. getNumRows()\*a.getNumColumns()-a.getOcupiedLocations().size()

2. a. isValid(new Location(10,10))

3. This is because Grid is an interface and to find implementations, you can look in the AbstractGrid and UnboundedGrid class.

4. No because Arrays would require a preset size meaning we would need to know the number of occupied location. This would be very inconvenient because we don’t know that figure. ArrayLists allow us to add objects as we go without having to know its final size.