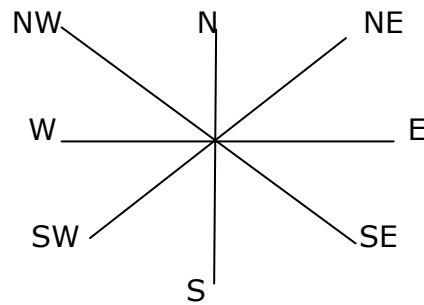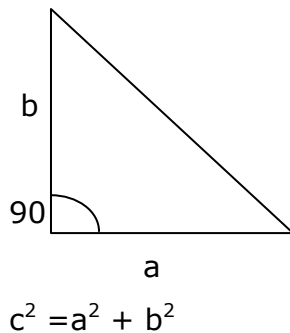## 6. Directions

1) For doing Directions we need to remember the following: 1.Direction Board

2) Pythagoras theorem:

$$c^2 = a^2 + b^2$$

3) Shadow always falls to the opposite side of sun's position.

Exercise

1. Gautam walked 35 meters towards south. Then he turned to his left and walked 40 meters. He then turned towards his left and walked 15 meters. He again turned to his right and walked 25 meters. At what approximate distance is he from the starting point and in which direction?

   1. 60m north-east   2. 35m South-east   3. 67m East   4.67m South-east

   5. None of these

2. A persons starts from his house and travels a distance of 10m southwards and then travels a distance of 12m rightwards, then travels distance of 10m rightwards and finally travels a distance of 10m in the eastern direction. At what horizontal distance is he from his house?

   1.2   2.10   3.12   4. cannot say   5.None of these

3. Saritha starts moving towards north, then turns right then left again. In what direction is she moving now?

   1. East   2. West   3. North   4. South   5. None of these

4. A crow starts from its nest in a tree, then travels 6km towards the east then travels 7km south, then travels 4km towards the left then travels 12km towards the left and finally travels 6km towards the right. In which direction is the crow now with reference to the starting point?

   1. South   2. Southwest   3. Southeast   4. Northeast   5. None of these

5. A persons starts from his house, then travels 6km towards the east, then goes 12km towards the left, then travels 6km towards the right, then 7km south, then travels 4km towards the left then travels 12km towards the left and finally travels 6km towards the right. Where is he now with reference to the starting point?

   1. 24 South   2. 24 North   3. 12 East   4.cannot say   5. None of these

Answers: 1.4   2.1   3.3   4.4   5.5