

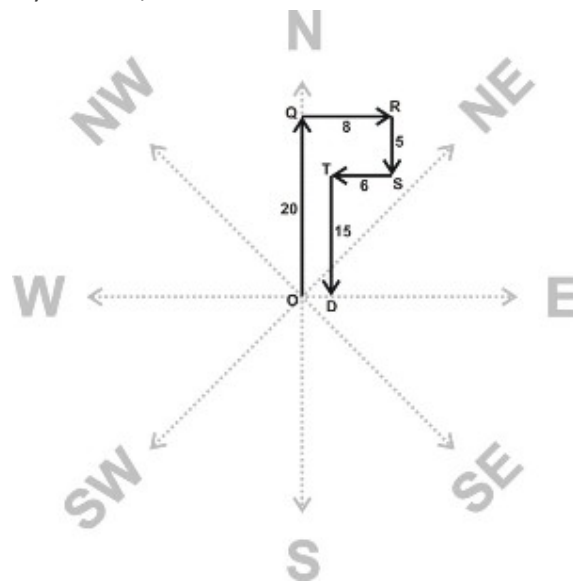
## DIRECTION AND DIRECTION

### Example #1

Ranjan leaves from his house on a car, he drives 20 Km towards North and then turned right and drove 8 km, then he turned right and cover 5 Km, then he turned West and drove 6 km. Lastly he turn left and drove to 15 Km. What is the distance and direction from his starting point ?

#### **Solution:**

$$O = (QR - ST) = (8 - 6) = 2 \text{ Km, East.}$$

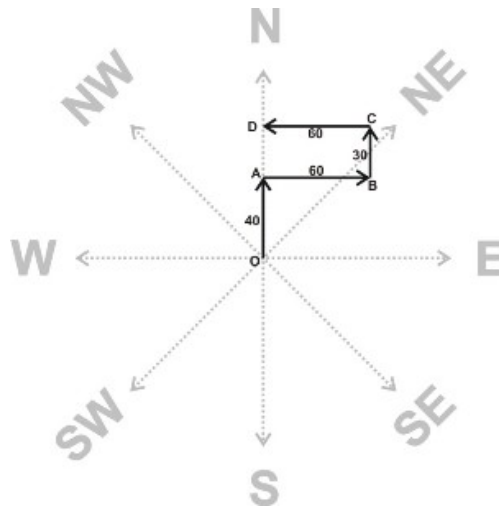


### Example #2

Sabir walks 40 meters towards North, he then turn right and cover 60 meters, then turning to his left and cover 30 meters and then turn west and cover 60 meters. How far he is from his starting point ?

#### **Solution:**

$$OD = (OA + BC) = (40M + 30M) = 70M.$$



### Example #3

Jhuma drove a car 10 Km to west from Suresh house, She turned left to 25 Km then turned to east and drove 30 Km and lastly, She turned left and drove 25 Km. How far is she from Suresh's house ?

### Solution:

$$OD = (BC - OA) = (30 - 10) = 20 \text{ Km.}$$

