













M A P I N D E X

- 1. RAIL TRACK  ###
- 2. BUS ROUTE 
- 3. AUTO STAND 
- 4. RESIDENTIAL AREA 
- 5. TRAFFIC SIGNAL 
- 6. HOSPITAL 
- 7. RIDGE 
- 8. SCHOOL BUS ROUTE 
- 9. INDUSTRIAL AREA 
- 10. BUS STOP 

HOMeward BOUND...

It is 4 p.m. School is over and Ravi has to reach home by 5 p.m. On his way he has some tasks to do.

- He has to pick up his sister from art school (Point E)
 - Pick up his shirt from tailor and pay him Rs. 40 (Point C)
 - Return a book to his friend, Deepak (Point D)
- He has Rs. 80 with him and some options to commute.
- Two school buses can drop him at Point A (Route 1) or G (Route 2), for which he need not pay.
 - A train starts at Point B (opposite Point A) – Moti Nagar railway station and will stop at Point H.
 - A public transport bus that starts from his school and has a stop near the railway station – Point H.
 - Opposite to this station is Point I – a place where you get autos and mini buses.
 - There is a cycle at Deepak's place – Point D, a stone's throw away from Point G.

He can walk, take a bus or a train or an auto. His school is around 10 –12 kilometres from his home, depending on the route and transport options.



There are three routes.
See the options and find out which *Eco-friendly route* Ravi should take.

CONDITIONS:

- **Mode of transport**
Eco-friendly. He must use less polluting routes – like residential areas, ridges and parks. Traffic signals and industrial areas are the most polluting zones.
- **Time**
Must reach by 5.00 p.m.
- **Economics**
Ravi has Rs. 80
- **Use the logic of**
Distance = Speed x time

DISTANCES

- School to Point A – 1.5 km
- Point B to H – 6 km
- Point H to C – 1 km
- Point H to D – 1.5 km
- Point C to E – 0.5 km
- Point C to D – 1.5 km
- Point D to E – 2 km
- Point E to Home – 0.5 km

FACT SHEET AND POINTS:

- ▶ **1. MODE OF TRANSPORT**
 - Average speed of walking
5 km / hr – 5 points
 - Average speed of cycle
15 km / hr – 4.5 points
 - Average speed of Public Transport Buses / Mini buses
40 km / hr – 3.5 points
 - Average speed of Public Transport Trains
50 km / hr – 3.5 points
 - Average speed of Auto
45- 50 km / hr – 2 points
 - Car / Taxi – 50 km / hr – 0 points
- ▶ **2. FARE**
 - Public Transport – Bus – Rs 2 for first 3 kilometres. Next, add Rs 2 for every 4 kilometres covered.
 - Public Transport – Train – Rs 4 for first 4 kilometres. Next, add Rs 2 for every 5 kilometres covered.
 - Auto – Minimum fare – Rs 8. For every extra kilometre, add Rs 3.50.