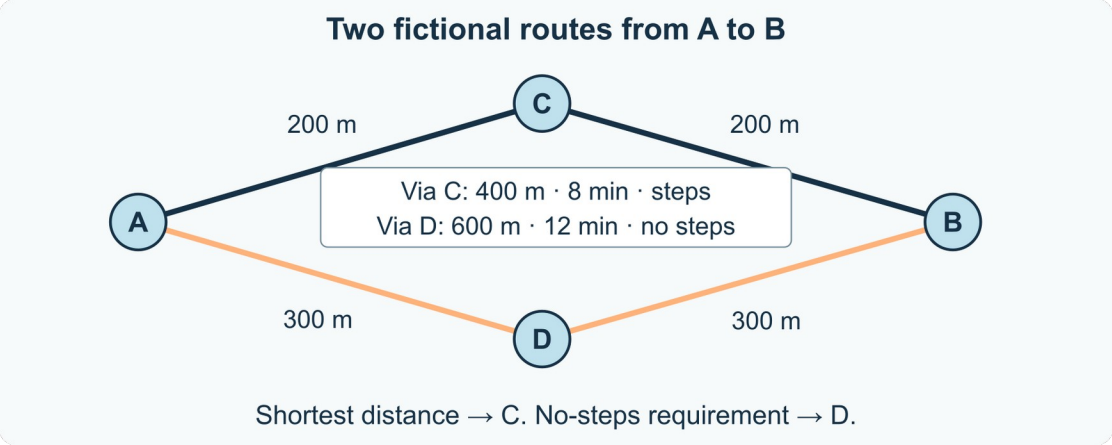
Compare two invented transport routes

What makes a route useful when distance is only one consideration?

Compare two fictional routes using a stated goal as well as their distance.

Investigate | 10–20 minutes, or one small comparison | Scrap paper and a pencil or pen, The supplied original model; no account, purchase or online search needed

Start here Draw two routes from A to B: a short route through C and a longer route through D.



A route choice needs a criterion

1 Supply the facts

Route A–C–B has two 200 m legs, takes 8 invented minutes and includes steps. Route A–D–B has two 300 m legs, takes 12 invented minutes and has no steps.

2 Name one criterion

Choose a fictional requirement such as shortest distance or no steps. You do not need to disclose a personal reason for choosing it.

3 Compare against it

Shortest distance favours A–C–B: 400 m. The no-steps requirement favours A–D–B: 600 m. Each answer names its criterion.

4 List missing facts

Surface, slope, weather and other access details are not supplied. Do not turn no steps into a claim that every person can use the route.

Original model two routes to a display hall

Distances, times and route features are supplied fictional data, not real transport information.

• Via C: 200 + 200 = 400 m; 8 minutes; steps.

• Via D: 300 + 300 = 600 m; 12 minutes; no steps.

• For a no-steps requirement choose D; for minimum distance choose C, given only these facts.

What this example can show The invented minutes are given data, not a general walking-speed rule. No-steps alone does not establish full accessibility.

A different way

Point to route labels or say which fact matters. Someone else can add the distances or mark the selected route.

If you want to go further

Add a second criterion: no steps and no more than 10 minutes. Explain why neither supplied route meets both, without inventing a third route as fact.

Something to notice

What changed when I changed the criterion?

Read or explore more

Horizon topic Transport Networks

https://launchhorizonhq.com/learn/transport-networks/

Horizon topic Cities Settlements

https://launchhorizonhq.com/learn/cities-settlements/

Horizon topic Maps Scale

https://launchhorizonhq.com/learn/maps-scale/

NRICH, University of Cambridge Only Connect

https://nrich.maths.org/problems/only-connect

Geoscience Australia What is Map Scale?

https://www.ga.gov.au/scientific-topics/national-location-information/topographic-maps-data/basics/what-is-map-scale