

## Topic 12 Scale and Distance

1 Complete the statements.

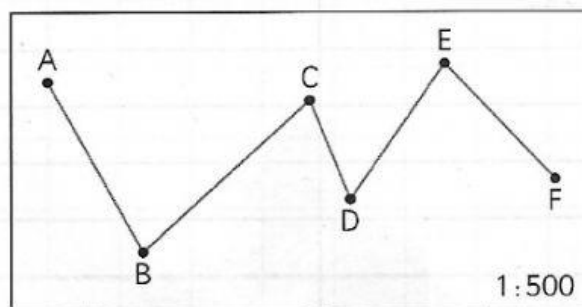
- a If the scale is 1 : 100, then 1 cm on the map = \_\_\_\_\_ in reality.
- b If the scale is 1 : 1 000, then 1 cm on the map = \_\_\_\_\_ in reality.
- c If the scale is 1 : 1 000, then 1 mm on the map = \_\_\_\_\_ in reality.
- d If the scale is 1 : 10 000, then 1 cm on the map = \_\_\_\_\_ in reality.

2 Mario is going to do a scale drawing using a scale of 1 : 100.

Draw a line to show accurately what length each of these real distances would be on his diagram.

- a 100 cm
- b 750 cm
- c 4.5 m
- d 15 m
- e 10.2 m

3 Measure the length of each line between each pair of points. Complete the table.



|                     | A to B | B to C | C to D | D to E | E to F |
|---------------------|--------|--------|--------|--------|--------|
| Distance on Diagram |        |        |        |        |        |
| Distance in Reality |        |        |        |        |        |