Measure and use a scale

Stage 03 | Perform | 8 mixed items

Stage 03: Convert a drawing length

Perform

Show your working or construction on paper. State units where asked. For questions 7 and 8, explain your method. Numerical entries may be rounded to 2 decimal places.

Name: _____ Date: _____

Work on separate paper. Plot and label figures; retain compass arcs. Give a reason for items 7 and 8.

1. A map states 1 cm represents 5 m. A line is 5 cm on paper. Find its real length in m.

2. A map states 1 cm represents 8 m. A line is 6.5 cm on paper. Find its real length in m.

3. A map states 1 cm represents 12 m. A line is 7.5 cm on paper. Find its real length in m.

4. A map states 1 cm represents 10 m. A line is 2 cm on paper. Find its real length in m.

5. A protractor shows 65° on the scale starting at zero on the base ray, and 115° on the other scale. Which reading is the angle?

6. A ruler starts at 3 cm and ends at 7.25 cm. Find the length in cm.

7. Diagnose an error. A map states 1 cm represents 5 m. A line is 5 cm on paper. Find its real length in m. A learner answers “26”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A map states 1 cm represents 8 m. A line is 6.5 cm on paper. Find its real length in m.

Mr. Devonish

Self-check after attempting: use the separate answer key on the skill page. Correct reasoning and a valid drawing matter as well as the final answer.