Measure and use a scale

Stage 04 | Select & Adapt | 8 mixed items

Stage 04: Work backward to the drawing

Select & Adapt

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. At a scale of 1 : 800, a real length is 52 m. Find its drawing length in cm.

2. At a scale of 1 : 1200, a real length is 90 m. Find its drawing length in cm.

3. At a scale of 1 : 1000, a real length is 20 m. Find its drawing length in cm.

4. At a scale of 1 : 2000, a real length is 70 m. Find its drawing length in cm.

5. A map states 1 cm represents 4 m. A line is 4.25 cm on paper. Find its real length in m.

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

7. Diagnose an error. At a scale of 1 : 800, a real length is 52 m. Find its drawing length in cm. A learner answers “7.5”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. At a scale of 1 : 1200, a real length is 90 m. Find its drawing length in cm.

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.

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