Measure and use a scale

Stage 05 | Connect & Justify | 8 mixed items

Stage 05: Combine scale and a perimeter

Connect & Justify

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 rectangle measures 7.5 cm by 2 cm on a map with 1 cm representing 12 m. Find its real perimeter in m.

2. A rectangle measures 2 cm by 2 cm on a map with 1 cm representing 10 m. Find its real perimeter in m.

3. A rectangle measures 3.5 cm by 2 cm on a map with 1 cm representing 20 m. Find its real perimeter in m.

4. A rectangle measures 4.25 cm by 2 cm on a map with 1 cm representing 4 m. Find its real perimeter in m.

5. At a scale of 1 : 500, a real length is 25 m. Find its drawing length in cm.

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

7. Diagnose an error. A rectangle measures 7.5 cm by 2 cm on a map with 1 cm representing 12 m. Find its real perimeter in m. A learner answers “229”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A rectangle measures 2 cm by 2 cm on a map with 1 cm representing 10 m. Find its real perimeter 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.