

# ANSWERS

## SCALE DRAWINGS

**Instructions:** These are situations with different scales. Each situation is on a different scale. What is the length of the real object?

- a) A blueprint of a park with a scale of 1:250 (1 cm on the blueprint represents 250 cm in reality). If the length of the main walkway on the blueprint is 10 cm, what is the actual length of the walkway in the park?

**Answer:** The actual length is  $10 \text{ cm} \times 250 = 2,500 \text{ cm}$ , which is 25 meters.

- b) A scale model of a dinosaur skeleton with a scale of 1:20 (1 cm on the model represents 20 cm in reality). If the height of the model is 35 cm, what is the actual height of the dinosaur?

**Answer:** The actual height is  $35 \text{ cm} \times 20 = 700 \text{ cm}$ , which is 7 meters.

- c) A satellite image of a lake with a scale of 1:100,000 (1 cm on the image represents 100,000 cm in reality). If the width of the lake on the image is 3 cm, what is the actual width of the lake?

**Answer:** The actual width is  $3 \text{ cm} \times 100,000 = 300,000 \text{ cm}$ , which is 3 kilometers.

How Did You Do? 😊 😐 😞