Chapter 8

Mid-Chapter Review

Frequently Asked Questions

- Q: How can you decide whether to use millimetres, metres, or centimetres for measuring?
- A: You can use millimetres to measure very small distances, metres to measure longer distances, and centimetres to measure in-between distances.
 - 1 mm is about the thickness of a dime.
 - 1 cm is about the width of a fingernail.
 - 1 m is about the distance from a doorknob to the floor.

Q: If two rectangles have the same perimeter, do they have the same area?

A: Rectangles that have the same perimeter can have different areas. If two rectangles have the same perimeter, the rectangle that looks more like a square has the greater area.



- Q: If two rectangles have the same area, do they have the same perimeter?
- A. Rectangles that have the same area can have different perimeters. If two rectangles have the same area, the rectangle that looks more like a square has the lesser perimeter.



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Area = 6 cm^2 Perimeter = 14 cm

Relating Units of Measurement 1 cm = 10 mm 1 m = 100 cm 1 m = 1000 mm

Practice

Lesson 1

- 1. Measure and record each length in millimetres.
 - a) _____
 - b) _____
- 2. Draw a line with each length.
 - a) 31 mm b) 67 mm
- **3.** An object is 4 m long.
 - a) How many centimetres long is it?
 - b) How many millimetres long is it?

Lesson 2

- 4. Name an object that could have each length.
 - a) 1 mm c) 60 cm
 - **b)** 5 mm **d)** 30 m
- 5. What objects could you measure with each unit? Give two possible answers for each.
 - a) millimetres b) metres

Lesson 3

 Sketch two different rectangles with a perimeter of 48 cm. Use 1 cm grid paper.

Lesson 4

- a) Sketch two different rectangles with an area of 18 cm². Use 1 cm grid paper.
 - b) Which rectangle has the lesser perimeter?
- Rectangle A and Rectangle B have the same perimeter, but the area of Rectangle A is much greater. Which rectangle looks more like a square? How do you know?
- 9. Why might someone who is planning to build a deck want to think about the relationship between the area and the perimeter of a rectangle?



