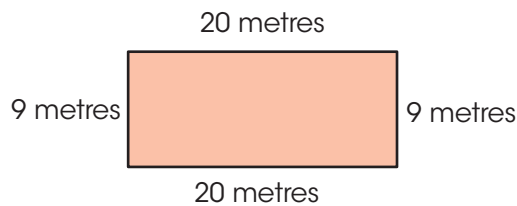


Learn About

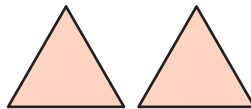
Using Geometry: Perimeter and Congruent Figures

The distance around a figure is called the **perimeter**. The perimeter of a figure is found by adding the lengths of the figure's sides.



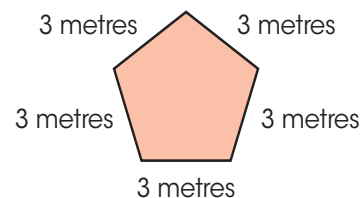
$$20 + 20 + 9 + 9 = 58 \text{ metres}$$

Two figures are **congruent** if they have the same size and shape.



These triangles are congruent.

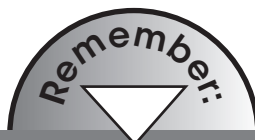
Sara and her friends are planning to build a clubhouse. The diagram shows the length of the sides on the base of the clubhouse. What is the perimeter of the base of the clubhouse?



The pentagon's sides are each 3 metres long.

$$3 + 3 + 3 + 3 + 3 = 15 \text{ metres}$$

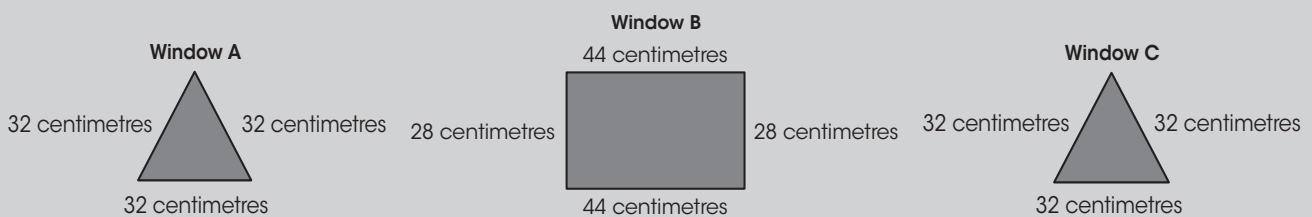
The perimeter of the base of the clubhouse is **15 metres**.



The distance around a figure is called the **perimeter**. The perimeter of a figure is found by adding the lengths of the figure's sides. Two figures are **congruent** if they have the same size and shape.

Using Geometry

Ray has three windows in his bedroom. The diagrams below show the shapes and sizes of the windows.



1. Which two windows are congruent?

- Ⓐ window A and window B
- Ⓑ window A and window C
- Ⓒ window B and window C
- Ⓓ None of the windows are congruent.

2. What is the perimeter of window B?

- Ⓐ 28 centimetres
- Ⓑ 56 centimetres
- Ⓒ 88 centimetres
- Ⓓ 144 centimetres

Lesson 11

Read the passage.
Then do Numbers 1–5.

In the Wind

Kim and Keith walked through the garden shop. Kim wanted to buy a windsock. Keith wanted to buy a banner. They saw items in many different colours and shapes. They could not decide what to buy!



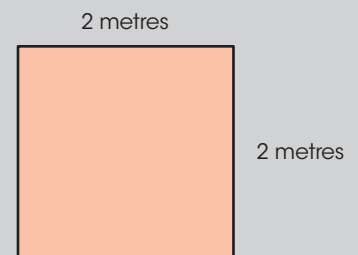
1. This is Kim's favorite windsock. Which figure does the windsock look like?

- (A) cylinder
- (B) cube
- (C) sphere
- (D) cone



2. Keith likes this banner. What is the perimeter of the banner?

- (A) 2 metres
- (B) 4 metres
- (C) 8 metres
- (D) 20 metres



Lesson 13

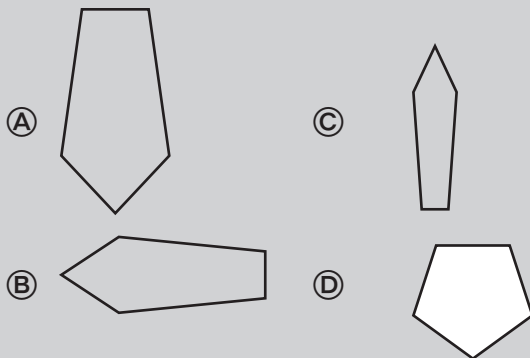
Read the passage.
Then do Numbers 1–5.

Trash to Treasures

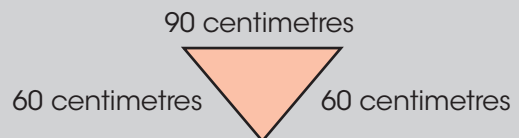
Kerry buys an old chair at a second-hand furniture shop. She paints the chair a solid colour. Then she uses a stencil to make a design on the chair. The chair looks so nice that Kerry returns to the shop to buy a table. She paints and stencils the table. Now she has a table and chair that look new!



1. Kerry stencils a pentagon on the seat of her chair. It is congruent to the shaded pentagon on the right. Which pentagon could be on Kerry's chair?



2. The top of Kerry's table is a triangle. What is the perimeter of the tabletop?



- (A) 120 centimetres
- (B) 150 centimetres
- (C) 180 centimetres
- (D) 210 centimetres

Self-Assessment 2

Lessons 6–10

Answer these questions after you have completed Lessons 6–10. Before you begin, re-read what you wrote in Self-Assessment 1.

FOCUS on Using Geometry, Book C

Name _____ Date _____

1. Rate your work in Lessons 6–10. Circle your answer.

successful

somewhat successful

needs improvement

2. Did any of the questions give you trouble? _____

If so, what kind of trouble did you have?

Is this the same kind of trouble you had in Lessons 1–5? _____

3. Did you find the questions easier or more difficult than those in Lessons 1–5?

Why do you think this is so?

4. Did you meet the goal you set for yourself for Lessons 6–10? _____

Why or why not?

5. What is your goal for Lessons 11–15?

Cut along the dotted line.