

Perimeter of composite rectilinear shapes

Year 5 · Geometry · y5-geo-perimeter

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. A composite rectilinear shape has sides of length 8 cm, 6 cm, 4 cm, 2 cm, 4 cm and 4 cm. What is its perimeter?

2. A rectilinear shape has sides of length 12 cm, 5 cm, 7 cm, 3 cm, 5 cm and 2 cm. What is its perimeter?

3. A rectilinear shape has sides of length 15 cm, 9 cm, 8 cm, 4 cm, 7 cm and 5 cm. What is its perimeter?

4. An L-shaped playground has sides of length 20 m, 12 m, 8 m, 6 m, 12 m and 6 m. What is the length of its perimeter?

5. A composite-shaped garden has sides of length 25 m, 8 m, 15 m, 4 m, 10 m and 4 m. How much fencing is needed to go around the garden?

6. A rectilinear shape fits inside a 12 cm by 7 cm rectangle. A 5 cm by 4 cm rectangular piece has been removed from one corner. What is the perimeter of the shape?

7. A composite shape fits inside a 16 cm by 10 cm rectangle. A 6 cm by 4 cm rectangular notch has been cut from one corner. What is the perimeter of the shape?

8. A rectilinear shape has sides of length 10 cm, 4 cm, 3 cm, 3 cm, 7 cm, 2 cm, 6 cm and 5 cm. What is its perimeter?

Challenge

1. Shape A is a square with side 9 cm. Shape B is a rectilinear shape with sides 11 cm, 8 cm, 5 cm, 4 cm, 6 cm and 4 cm. Which has the greater perimeter?

2. A composite-shaped lawn has an overall length of 20 m and overall width of 15 m. A rectangular patio of 8 m by 5 m has been removed from one corner. What is the perimeter of the lawn?
