

Name _____

Problem Solving
4-4

Perimeter

The drawings show the roof of a bandstand and a park where some sports activities take place.

1. What is the perimeter of the roof?

28 m

2. **Analyse:** The perimeter of the park forms a square. Each side of the park measures 28 m and two friends race around the park. How far did they run altogether?

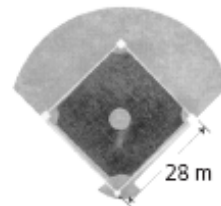
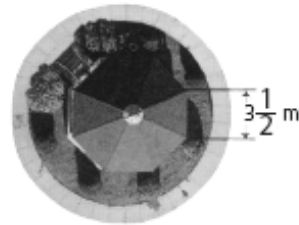
224 m

3. Several sections in the park are roped off for different activities. One rectangular section is twice as long as it is wide. What is the perimeter of this section if the width is 12 metres? What strategy did you use to solve this problem?

72 m; Possible strategies: Draw a Diagram or Write an Equation.

4. **Analyse:** One of the sections is a square, and another is a regular pentagon. Each has a perimeter of 60 metres. Find the length of a side for each section.

Square: 15 m; pentagon: 12 m



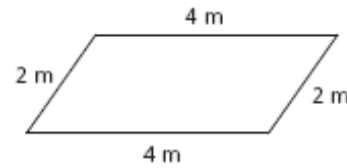
Name _____

Problem Solving
4-5

Area of Quadrilaterals

1. Explain: Look at the parallelogram at the right.

Can you find the area with the dimensions given? Why or why not?



No; there is no height given.

Use the diagram at the right to solve Problems 2-5.

2. A section of the field will be used for games.

What is the area of this section? 2 835 m²

3. What is the perimeter of the section roped off

for games? 216 m

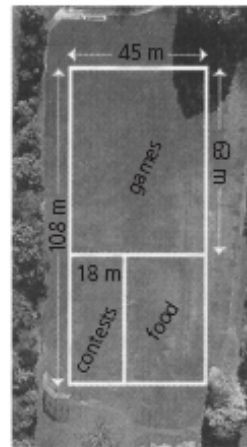
4. What are the dimensions of the section roped off for serving food? What is the area of that section?

27 m by 45 m; 1 215 m²

5. What is the perimeter of the section for contests?

What is the area of that section?

126 m; 810 m²

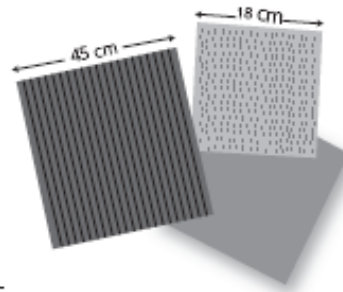


Name _____

Problem Solving
4-6

Area of Triangles

These squares of paper will be cut in half to make triangular place mats for the picnic tables.



1. Find the area of a place mat made from a striped paper square.

288 cm²

2. Find the area of a place mat made from a dotted paper square.

162 cm²

3. **Analyse:** If the area of a shaded place mat is 200 cm², how long is each side of a shaded square?

20 cm

