ALBERT

Name _____ Date _____

Perimeter Worksheet

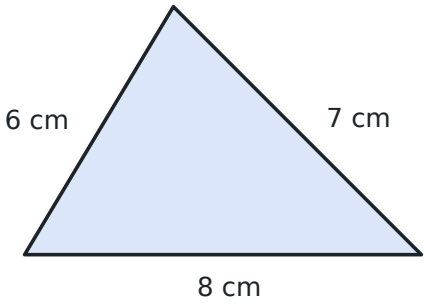
Grade 3 · Common Core 3.MD.D.8

> Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.

Practice

Builds the skill step by step.

1. What is the perimeter of the triangle?



2. What is the perimeter of the rectangle?



3. What does perimeter measure?

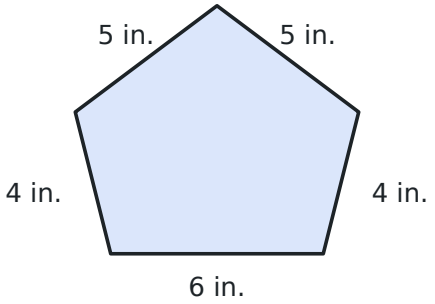
   A. The space inside a shape

   B. How many corners a shape has

   C. The distance around a shape

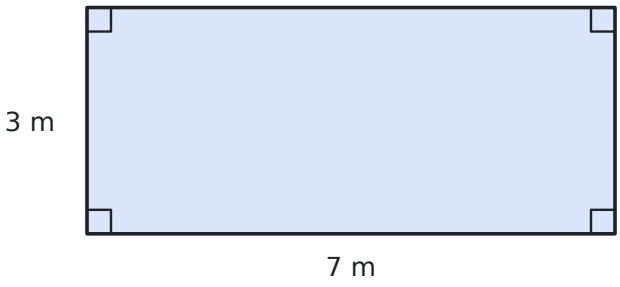
   D. How heavy a shape is

4. What is the perimeter of the five-sided figure?



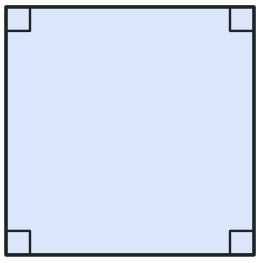
5. A square has sides that are 5 inches long. What is its perimeter?

6. What is the perimeter of the rectangle?



7. A triangle has sides of 4 feet, 5 feet and 6 feet. What is its perimeter?

8. What is the perimeter of the square?



6 cm

9. A garden is 6 meters long and 2 meters wide. Which shows its perimeter?

   A. 6 + 2 + 6 + 2

   B. 6 × 2

   C. 6 + 2

   D. 6 × 2 × 4

10. A rectangle is 8 inches long and 5 inches wide. What is its perimeter?

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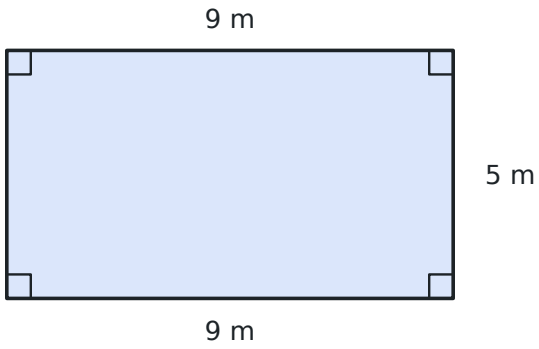
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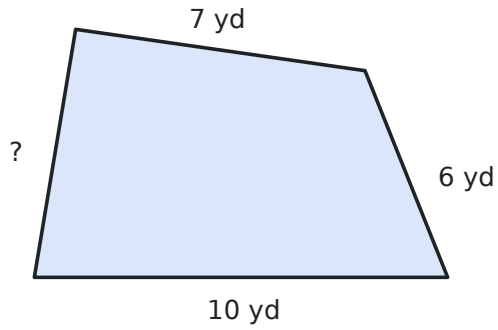
On Level

Grade-level practice.

1. The rectangle has a perimeter of 28 meters. What is the length of the side with no label?



2. The four-sided figure has a perimeter of 30 yards. What is the length of the side marked with a question mark?



3. A fence goes around a rectangular yard that is 12 meters long and 7 meters wide. How many meters of fence are needed?

4. A square picture frame has a perimeter of 32 inches. How long is each side?

5. Rectangle A is 5 by 3. Rectangle B is 4 by 4. Which is true?

   A. They have the same area and the same perimeter.

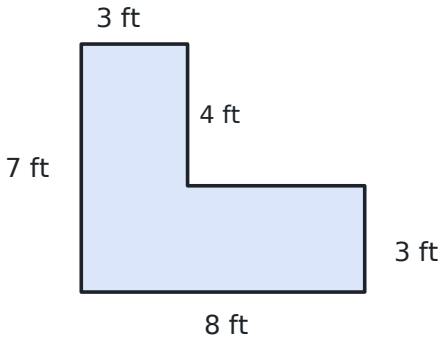
   B. They have different areas and different perimeters.

   C. They have the same area but different perimeters.

   D. They have the same perimeter but different areas.

6. A rectangle has a perimeter of 18 centimeters. Its length is 6 centimeters. What is its width?

7. All corners are right angles. A side without a label can be found from the other sides. What is the perimeter of the L-shaped figure?



8. Two rectangles each have an area of 12 square units. Which pair has different perimeters?

   A. 3 by 4 and 4 by 3

   B. 2 by 6 and 3 by 4

   C. 1 by 12 and 12 by 1

   D. 2 by 6 and 6 by 2

9. Jana walks around a triangular park. The sides are 45 meters, 60 meters and 75 meters. How far does she walk?

10. A rectangular rug is 6 feet long and 4 feet wide. Ribbon is sewn around the edge. How many feet of ribbon are needed?

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Challenge

Multi-step and word problems that stretch it.

1. A rectangle has a perimeter of 24 feet. Its length is 8 feet. What is its area?

2. Which rectangle has a perimeter of 20 units and an area of 24 square units?

   A. 5 by 5

   B. 2 by 12

   C. 3 by 7

   D. 4 by 6

3. Leo has 16 meters of fence for a rectangular garden. He wants the biggest area possible with whole-meter sides. What is the biggest area?

4. Mia says a 2-by-8 rectangle and a 4-by-4 rectangle have the same perimeter because they have the same area. What is true?

   A. Different areas, same perimeter

   B. Same area, but perimeters 20 and 16

   C. Same area and same perimeter

   D. Different areas and different perimeters

5. A square has a perimeter of 36 centimeters. What is its area?

6. A rope goes all the way around the edge of a rectangular pool that is 10 meters long and 6 meters wide. A post holds up the rope every 4 meters, starting at a corner. How many posts are there?

7. Two rectangles each have a perimeter of 14 units. One is 5 by 2. The other is 4 by 3. How much more area does the 4-by-3 rectangle have?

8. A triangle has a perimeter of 40 inches. Two sides are 12 inches and 15 inches. How long is the third side?

9. Which statement is always true?

   A. Rectangles with the same area always have the same perimeter.

   B. Perimeter and area are always the same number.

   C. Rectangles with the same area can have different perimeters.

   D. A bigger perimeter always means a bigger area.

10. A rectangle has an area of 18 square feet and a width of 3 feet. What is its perimeter?