

# Geometry in Nature - Grade 5 Math Worksheet

Math

Grade 5

Nature Theme

□ Solve each geometry problem about nature. Show your work and write your answer on the line provided. You may draw pictures to help you solve the problems.

NAME \_\_\_\_\_

DATE \_\_\_\_\_

SCORE \_\_\_\_\_ / 8

1

A garden bed is shaped like a rectangle. It measures 8 meters long and 5 meters wide. What is the perimeter of the garden bed?

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\_\_\_\_\_

2

A circular pond has a radius of 6 feet. What is the area of the pond? (Use  $\pi \approx 3.14$ )

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3

A triangular flower patch has a base of 10 meters and a height of 8 meters. What is the area of the flower patch?

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4

A hexagonal honeycomb cell has all sides equal to 2 centimeters. What is the perimeter of one hexagon?

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\_\_\_\_\_

5

A tree trunk forms a cylinder with a diameter of 2 feet and a height of 20 feet. What is the circumference around the base of the trunk? (Use  $\pi \approx 3.14$ )

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6

A square forest reserve has an area of 100 square kilometers. What is the length of one side of the forest?

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7

A butterfly's wing span forms a rectangle that is 6 inches wide and 4 inches tall. What is the area of the butterfly's wings?

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8

A mountain trail forms a triangle with sides measuring 5 miles, 5 miles, and 6 miles. What is the perimeter of the trail?

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# Answer Key

Math

Grade 5

For Parents and Teachers

1

A garden bed is shaped like a rectangle. It measures 8 meters long and 5 meters wide. What is the perimeter of the garden bed?

ANSWER

26 meters

2

A circular pond has a radius of 6 feet. What is the area of the pond? (Use  $\pi \approx 3.14$ )

ANSWER

113.04 square feet

3

A triangular flower patch has a base of 10 meters and a height of 8 meters. What is the area of the flower patch?

ANSWER

40 square meters

4

A hexagonal honeycomb cell has all sides equal to 2 centimeters. What is the perimeter of one hexagon?

ANSWER

12 centimeters

5

A tree trunk forms a cylinder with a diameter of 2 feet and a height of 20 feet. What is the circumference around the base of the trunk? (Use  $\pi \approx 3.14$ )

ANSWER

6.28 feet

6

A square forest reserve has an area of 100 square kilometers. What is the length of one side of the forest?

ANSWER

10 kilometers

7

A butterfly's wing span forms a rectangle that is 6 inches wide and 4 inches tall. What is the area of the butterfly's wings?

ANSWER

24 square inches

8

A mountain trail forms a triangle with sides measuring 5 miles, 5 miles, and 6 miles. What is the perimeter of the trail?

ANSWER

16 miles