

# Perimeter Quest: The Art Gallery Adventure

Math

Grade 3

Art Theme

Help the colorful art characters measure and protect their creations by calculating perimeters on this magical mathematical adventure!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

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

1

Picasso the Painter is creating a rectangular canvas for his masterpiece. The canvas is 8 inches long and 5 inches wide. He wants to add a golden frame around the entire edge. What is the perimeter of his canvas so he knows how much gold trim to buy?

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2

Sketchy the Sketch Artist drew a perfect square mural on the art studio wall. Each side of the square measures 6 feet. The art teacher wants to hang a rope light around the entire square mural for the art show. How many feet of rope light does she need?

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3

Brushina the Bold is painting a rectangular garden mural that measures 12 meters on one side and 9 meters on another side. She wants to plant flowers around the border of her mural design. What is the perimeter of her rectangular mural?

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4

Sculpty the Sculptor created a square clay art piece with each side measuring 7 inches. He wants to wrap a protective ribbon around the entire edge of his creation for the art competition. How much ribbon does he need in total?

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5

Palette Pete is designing a rectangular mosaic tile pattern that is 15 centimeters long and 10 centimeters wide. He needs to create a border with special tiles around his masterpiece. What is the perimeter he needs to cover?

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6

Colorful Clara painted a square abstract art piece where each side is 9 feet long. The art gallery wants to install a safety barrier around her painting. How many feet of barrier material do they need?

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7

Artsy Andy is framing a rectangular photograph he took. The frame measures 20 inches across the top and 14 inches down the side. To add decorative beads around the entire frame edge, what perimeter distance must he measure?

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\_\_\_\_\_

8

Doodle Diana created a square stained glass window design with sides that each measure 11 inches. She needs to order lead trim to outline the entire perimeter of her beautiful glass creation. How many inches of lead trim should she order?

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# Answer Key

Math

Grade 3

For Parents and Teachers

1

Picasso the Painter is creating a rectangular canvas for his masterpiece. The canvas is 8 inches long and 5 inches wide. He wants to add a golden frame around the entire edge. What is the perimeter of his canvas so he knows how much gold trim to buy?

ANSWER

26 inches

2

Sketchy the Sketch Artist drew a perfect square mural on the art studio wall. Each side of the square measures 6 feet. The art teacher wants to hang a rope light around the entire square mural for the art show. How many feet of rope light does she need?

ANSWER

24 feet

3

Brushina the Bold is painting a rectangular garden mural that measures 12 meters on one side and 9 meters on another side. She wants to plant flowers around the border of her mural design. What is the perimeter of her rectangular mural?

ANSWER

42 meters

4

Sculpty the Sculptor created a square clay art piece with each side measuring 7 inches. He wants to wrap a protective ribbon around the entire edge of his creation for the art competition. How much ribbon does he need in total?

ANSWER

28 inches

5

Palette Pete is designing a rectangular mosaic tile pattern that is 15 centimeters long and 10 centimeters wide. He needs to create a border with special tiles around his masterpiece. What is the perimeter he needs to cover?

ANSWER

50 centimeters

6

Colorful Clara painted a square abstract art piece where each side is 9 feet long. The art gallery wants to install a safety barrier around her painting. How many feet of barrier material do they need?

ANSWER

36 feet

7

Artsy Andy is framing a rectangular photograph he took. The frame measures 20 inches across the top and 14 inches down the side. To add decorative beads around the entire frame edge, what perimeter distance must he measure?

ANSWER

68 inches

8

Doodle Diana created a square stained glass window design with sides that each measure 11 inches. She needs to order lead trim to outline the entire perimeter of her beautiful glass creation. How many inches of lead trim should she order?

ANSWER

44 inches

