LESSON MAKER PRO

Rectangle Measure Mix

Find area and perimeter with fractions and decimals.

GRADE 5 · MA.5.GR.2.1

MA.5.GR.2.1 "Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual models and formulas."

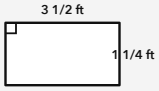
NAME _____ DATE _____

TWO RECTANGLE MEASURES

Perimeter is the distance around a rectangle. Add the length and width, then multiply by 2. Area is the space inside a rectangle, so multiply the length by the width.

WORKED EXAMPLE

Use the rectangle to find its perimeter and area.

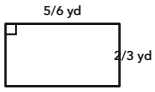


1. Perimeter: 2(3 1/2 + 1 1/4).
2. 2(4 3/4) = 9 1/2 ft.
3. Area: 3 1/2 × 1 1/4 = 4 3/8 square ft.

Answer: Perimeter: 9 1/2 ft; Area: 4 3/8 square ft

PRACTICE 4 problems

1 Use the rectangle to find the perimeter and area.

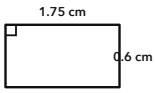


ANSWER _____

2 A rectangle is 4.8 m long and 2.5 m wide. Find the perimeter and area.

ANSWER _____

3 Use the rectangle to find the perimeter and area.



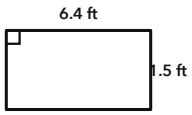
ANSWER _____

4 A rectangle is 2 1/2 in. long and 1 1/5 in. wide. Find the perimeter and area.

ANSWER _____

APPLY IT Show your work

1 Mia makes a rectangular banner shown. She puts trim around the edge and fabric covers the banner. How much trim and fabric does she need?



ANSWER _____

2 A rectangular poster is 3 3/4 ft long and 2 2/5 ft wide. How much ribbon goes around it, and what is its area?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A rectangular game mat has an area of 7.5 square ft and a length of 2.5 ft. Find its width and perimeter. Explain how the area helped you find the width.

WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Measure Mix

GRADE 5 · MA.5.GR.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the rectangle to find the perimeter and area.	**Perimeter: 3 yd; Area: 5/9 square yd**
2	A rectangle is 4.8 m long and 2.5 m wide. Find the perimeter and area.	**Perimeter: 14.6 m; Area: 12 square m**
3	Use the rectangle to find the perimeter and area.	**Perimeter: 4.7 cm; Area: 1.05 square cm**
4	A rectangle is 2 1/2 in. long and 1 1/5 in. wide. Find the perimeter and area.	**Perimeter: 7 2/5 in.; Area: 3 square in.**

PART 2 · APPLY IT

1. **15.8 ft of trim; 9.6 square ft of fabric** Find perimeter with 2(6.4 + 1.5). Multiply 6.4 by 1.5 for the area.
2. **12 3/10 ft of ribbon; 9 square ft** Add the side lengths and multiply by 2 for the ribbon. Multiply 3 3/4 by 2 2/5 for the area.

CHALLENGE

The width is 3 ft because 7.5 ÷ 2.5 = 3. The perimeter is 11 ft because 2(2.5 + 3) = 11.

Accept equivalent fraction or decimal forms. Students should include the correct linear units for perimeter and square units for area.