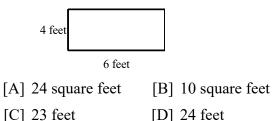
Geometry Practice G.MG.A.3: Area 3 www.jmap.org

1. What is the area of this rectangle?



2. A rectangle is 9.9 inches long and 2.8 inches wide. Find its area.

[A] 12.7 in.	[B] 27.72 in. ²
[C] 25.4 in.	[D] 277.2 in. ²

- Find the area of the rectangle with the given base and height.
 2 yd 24 in., 12 yd
 - [A] 29 yd² 12 in.² [B] 32 yd²
 - [C] 24 yd² 48 in.² [D] 48 yd² 24 in.²
- 4. Find the area of the rectangle with the given base and height.3 ft 8 in., 4 in.
- 5. A rectangle is 20 in. tall. Its area is 260 in.². What is its width?

[A] 15 in.	[B] 68 in.
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[C] 66 in. [D] 13 in.

NAME:___

- 6. The area of a rectangle is 168 square centimeters. If its width is 14 centimeters, what is its length?
- 7. The cost of seeding a lawn is directly proportional to the area to be seeded. The cost of seeding an area 10 feet by 8 feet is \$8.00. How much does it cost to seed an area that measures 60 feet by 10 feet?
- A city regulates advertising signs. They cannot exceed 36 ft² and cannot be more that 6 ft high. Draw and label the dimensions for three possible signs.
- 9. Mr. Alan's family room is a rectangle that measures 7 meters by 5 meters. In the room is a fireplace that extends out from the wall 0.5 meter and measures 1 meter across. Mr. Alan wants to cover the floor with carpet that costs \$12 per square meter. How much will the carpet cost?
- 10. Thom's living room is 10 ft by 12 ft by 8 ft high. He plans to paint one of the long walls as follows: a yellow square 7 ft by 7 ft in one corner and an overlapping blue square 6 ft by 6 ft in the opposite corner. What percent of the wall will be painted either blue or yellow? What percent will be painted with both colors?

NAME:

- 11. The area of a rectangle is decreased by 25%. Which of the following could happen?
 - [A] Both sides are decreased by 50%.
- [B] One side is decreased by 50%.
- [C] Both sides are decreased by 25%.
- [E] none of the above

- [D] One side is decreased by 25%.
- 12. If a rectangle's length is increased by 70% and its width is decreased by 55%, then what is the percent change in area?
- 13. Compare the quantity in Column A with the quantity in Column B. $\underline{Column A}$ $\underline{Column B}$ perimeter of a squareperimeter of a rectangle that is notwith area 64 cm²a square with area 64 cm²
 - [A] The quantity in Column A is greater. [B] The quantity in Column B is greater.
 - [C] The two quantities are equal.
 - [D] The relationship cannot be determined on the basis of the information supplied.

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[1]	<u>A</u>
[2]	<u>B</u>
[3]	<u>B</u>
[4]	$1 \text{ ft}^2 32 \text{ in.}^2$
[5]	<u>D</u>
[6]	12 cm
[7]	\$60.00
[8]	Answers may vary. Sample: 4 ft high and 9 ft long, 6 ft high and 6 ft long, or 3 ft high and 12 ft long
[9]	\$414
[10]	83.3% painted blue or yellow; 5.2% painted both colors
[11]	<u>D</u>
[12]	$23\frac{1}{2}\%$ decrease
[13]	<u>B</u>