

3.MD.7 — Area of Rectangles & Distributive Property

Multiplication • Grade 3 • CCSS 3.MD.7

Name: _____

Date: _____

Read each problem carefully, then find the area by multiplying length times width or using the distributive property.

1. Mia is tiling her bathroom floor. The floor is 4 feet long and 3 feet wide. What is the area of the bathroom floor?
2. A school garden is shaped like a rectangle. It is 7 meters long and 5 meters wide. What is the area of the garden?
3. Jake is painting a rectangular wall that is 9 feet long and 6 feet wide. What is the total area he needs to paint?
4. A rectangular rug in the classroom is 8 feet long and 4 feet wide. What is the area of the rug?
5. A rectangular piece of construction paper is 11 inches long and 8 inches wide. What is the area of the paper?
6. The school cafeteria has a rectangular floor that is 12 meters long and 9 meters wide. What is the area of the cafeteria floor?
7. A vegetable garden is divided into two sections. One section is 3 feet wide and 5 feet long, and the other section is 3 feet wide and 4 feet long. Using the distributive property, what is the total area of the garden? (Hint: $3 \times (5 + 4)$)

8. Lucas wants to find the area of a rectangle that is 6 inches long and 7 inches wide. What is the area?
9. A swimming pool at the park is 10 meters long and 6 meters wide. What is the area of the pool?
10. A rectangular poster on the wall is 5 feet long and 2 feet wide. What is the area of the poster?
11. A playground is shaped like a rectangle. It is 11 yards long and 7 yards wide. What is the area of the playground?
12. Sofia is decorating a rectangular card. The card is 9 inches long and 4 inches wide. What is the area of the card?
13. A rectangular tabletop is 8 feet long. You can split the width into two parts: 3 feet and 2 feet. Using the distributive property, what is the total area of the tabletop? (Hint: $8 \times (3 + 2)$)
14. A rectangular field is 12 yards long and 5 yards wide. What is the area of the field?
15. The art room has a rectangular floor that is 10 feet long and 8 feet wide. What is the area of the art room floor?
16. A rectangular piece of fabric is 6 inches wide. It can be split into two lengths: 7 inches and 3 inches. Using the distributive property, find the total area of the fabric. (Hint: $6 \times (7 + 3)$)
17. Noah is laying square tiles on a rectangular patio. The patio is 9 feet long and 3 feet wide. How many square feet of tile does he need?

18. A rectangular bulletin board is 11 inches long and 6 inches wide. What is the area of the bulletin board?
19. A rectangular sandbox is 4 meters wide. The length can be broken into two parts: 5 meters and 2 meters. Using the distributive property, find the total area of the sandbox. (Hint: $4 \times (5 + 2)$)
20. Emma has a rectangular quilt that is 7 feet long and 9 feet wide. What is the area of the quilt?
21. A rectangular skating rink is 12 meters long and 8 meters wide. What is the area of the skating rink?
22. A rectangular window is 5 feet wide. Its height can be split into two parts: 4 feet and 2 feet. Using the distributive property, what is the total area of the window? (Hint: $5 \times (4 + 2)$)

Answer Key

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| 1. 12 square feet | 9. 60 square meters | 17. 27 square feet |
| 2. 35 square meters | 10. 10 square feet | 18. 66 square inches |
| 3. 54 square feet | 11. 77 square yards | 19. 28 square meters |
| 4. 32 square feet | 12. 36 square inches | 20. 63 square feet |
| 5. 88 square inches | 13. 40 square feet | 21. 96 square meters |
| 6. 108 square meters | 14. 60 square yards | 22. 30 square feet |
| 7. 27 square feet | 15. 80 square feet | |
| 8. 42 square inches | 16. 60 square inches | |