

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

Measurement • Grade 3 • Word Problems • Set C • 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. Willa is laying square tiles on a rectangular school garden. The school garden is 12 meters long and 6 meters wide. How many square meters of tile does Willa need?

2. A rectangular school garden is 7 meters wide. Its length can be split into two parts: 7 meters and 3 meters. Using the distributive property, what is the total area of the school garden? (Hint: $7 \times (7 + 3)$)

3. Carla is measuring a rectangular quilt. It is 9 feet long and 2 feet wide. What is the area of the quilt?

4. A rectangular skating rink is 10 meters long and 8 meters wide. What is the area of the skating rink?

5. Sam is laying square tiles on a rectangular rug. The rug is 6 feet long and 3 feet wide. How many square feet of tile does Sam need?

6. A rectangular school garden is 3 meters wide. Its length can be split into two parts: 2 meters and 2 meters. Using the distributive property, what is the total area of the school garden? (Hint: $3 \times (2 + 2)$)

7. Felix is measuring a rectangular bulletin board. It is 6 inches long and 8 inches wide. What is the area of the bulletin board?

8. A rectangular art room floor is 7 feet long and 5 feet wide. What is the area of the art room floor?

9. Willa is laying square tiles on a rectangular cafeteria floor. The cafeteria floor is 6 meters long and 9 meters wide. How many square meters of tile does Willa need?

10. A rectangular poster is 3 feet wide. Its length can be split into two parts: 2 feet and 3 feet. Using the distributive property, what is the total area of the poster? (Hint: $3 \times (2 + 3)$)

11. Zane is measuring a rectangular bulletin board. It is 7 inches long and 8 inches wide. What is the area of the bulletin board?

12. A rectangular cafeteria floor is 10 meters long and 3 meters wide. What is the area of the cafeteria floor?

13. Sam is laying square tiles on a rectangular art room floor. The art room floor is 8 feet long and 6 feet wide. How many square feet of tile does Sam need?

14. A rectangular patio is 8 feet wide. Its length can be split into two parts: 4 feet and 3 feet. Using the distributive property, what is the total area of the patio? (Hint: $8 \times (4 + 3)$)

15. Priya is measuring a rectangular art room floor. It is 5 feet long and 8 feet wide. What is the area of the art room floor?

16. A rectangular playground is 6 yards long and 3 yards wide. What is the area of the playground?

17. Ava is laying square tiles on a rectangular field. The field is 4 yards long and 3 yards wide. How many square yards of tile does Ava need?

18. A rectangular cafeteria floor is 7 meters wide. Its length can be split into two parts: 4 meters and 4 meters. Using the distributive property, what is the total area of the cafeteria floor? (Hint: $7 \times (4 + 4)$)

19. Zane is measuring a rectangular quilt. It is 7 feet long and 4 feet wide. What is the area of the quilt?

20. A rectangular playground is 9 yards long and 6 yards wide. What is the area of the playground?

21. Grace is laying square tiles on a rectangular quilt. The quilt is 5 feet long and 3 feet wide. How many square feet of tile does Grace need?

22. A rectangular bulletin board is 4 inches wide. Its length can be split into two parts: 4 inches and 4 inches. Using the distributive property, what is the total area of the bulletin board? (Hint: $4 \times (4 + 4)$)

Answer Key

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|---------------------|----------------------|----------------------|
| 1. 72 square meters | 9. 54 square meters | 17. 12 square yards |
| 2. 70 square meters | 10. 15 square feet | 18. 56 square meters |
| 3. 18 square feet | 11. 56 square inches | 19. 28 square feet |
| 4. 80 square meters | 12. 30 square meters | 20. 54 square yards |
| 5. 18 square feet | 13. 48 square feet | 21. 15 square feet |
| 6. 12 square meters | 14. 56 square feet | 22. 32 square inches |
| 7. 48 square inches | 15. 40 square feet | |
| 8. 35 square feet | 16. 18 square yards | |