

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

Measurement • Grade 3 • Word Problems • Set B • 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. Yara is laying square tiles on a rectangular art room floor. The art room floor is 4 feet long and 8 feet wide. How many square feet of tile does Yara need?

2. A rectangular playground is 12 yards long and 8 yards wide. What is the area of the playground?

3. A rectangular quilt is 2 feet wide. Its length can be split into two parts: 6 feet and 4 feet. Using the distributive property, what is the total area of the quilt? (Hint: $2 \times (6 + 4)$)

4. Rosa is measuring a rectangular piece of construction paper. It is 9 inches long and 4 inches wide. What is the area of the piece of construction paper?

5. Zane is laying square tiles on a rectangular bathroom floor. The bathroom floor is 9 feet long and 5 feet wide. How many square feet of tile does Zane need?

6. A rectangular rug is 6 feet long and 5 feet wide. What is the area of the rug?

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

8. Leo is measuring a rectangular bulletin board. It is 5 inches long and 7 inches wide. What is the area of the bulletin board?

9. Jonah is laying square tiles on a rectangular cafeteria floor. The cafeteria floor is 5 meters long and 7 meters wide. How many square meters of tile does Jonah need?

10. A rectangular quilt is 9 feet long and 9 feet wide. What is the area of the quilt?

11. A rectangular quilt is 6 feet wide. Its length can be split into two parts: 7 feet and 4 feet. Using the distributive property, what is the total area of the quilt? (Hint: $6 \times (7 + 4)$)

12. Xavier is measuring a rectangular card. It is 4 inches long and 7 inches wide. What is the area of the card?

13. Yara is laying square tiles on a rectangular card. The card is 7 inches long and 7 inches wide. How many square inches of tile does Yara need?

14. A rectangular bathroom floor is 12 feet long and 9 feet wide. What is the area of the bathroom floor?

15. A rectangular card is 6 inches wide. Its length can be split into two parts: 2 inches and 5 inches. Using the distributive property, what is the total area of the card? (Hint: $6 \times (2 + 5)$)

16. Leo is measuring a rectangular bulletin board. It is 7 inches long and 7 inches wide. What is the area of the bulletin board?

17. Xavier is laying square tiles on a rectangular playground. The playground is 12 yards long and 4 yards wide. How many square yards of tile does Xavier need?

18. A rectangular cafeteria floor is 9 meters long and 4 meters wide. What is the area of the cafeteria floor?

19. A rectangular school garden is 2 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: $2 \times (2 + 2)$)

20. Omar is measuring a rectangular bathroom floor. It is 6 feet long and 6 feet wide. What is the area of the bathroom floor?

21. Yara is laying square tiles on a rectangular skating rink. The skating rink is 8 meters long and 5 meters wide. How many square meters of tile does Yara need?

22. A rectangular playground is 10 yards long and 8 yards wide. What is the area of the playground?

Answer Key

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| 1. 32 square feet | 9. 35 square meters | 17. 48 square yards |
| 2. 96 square yards | 10. 81 square feet | 18. 36 square meters |
| 3. 20 square feet | 11. 66 square feet | 19. 8 square meters |
| 4. 36 square inches | 12. 28 square inches | 20. 36 square feet |
| 5. 45 square feet | 13. 49 square inches | 21. 40 square meters |
| 6. 30 square feet | 14. 108 square feet | 22. 80 square yards |
| 7. 28 square inches | 15. 42 square inches | |
| 8. 35 square inches | 16. 49 square inches | |