

Area: Skill 5 - 22B

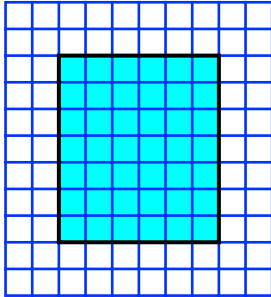
Area of Rectangles

The last example below is the answer to the test question.

Area is the number of square units needed to cover the surface inside of a figure.

How to find the area of a rectangle.

Find the area of a rectangle by counting the square units.



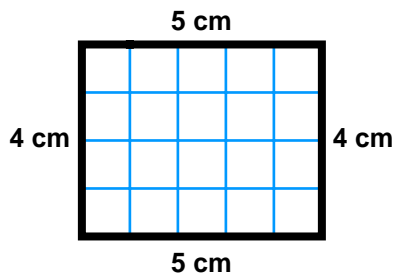
Count the square units in the rectangle. There are 42 square units. Area is measured in square units. For example, area can be measured in square inches (in.²), square centimeters (cm²) or square meters (m²).

To find the area of a rectangle multiply the length times the width.

The formula is: area of a rectangle = length x width or $A = l \times w$.

Examples

Find the area of the rectangle.



The area is the length times the width.

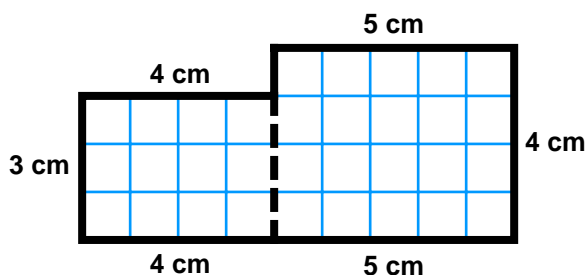
$$A = 5 \times 4$$

$$A = 20 \text{ cm}^2$$

The area is 20 sq cm. (count the sq cm in the rectangle)

The example below is also the test question answer.

Find the area of the figure.



To find the area divide the figure into two rectangles.

Find the area of each smaller part. The first part is 4 cm in length and 3 cm in width.

$$A = 4 \times 3$$

$$A = 12 \text{ cm}^2$$

So, the area is 12 cm².

The next part is 5 cm in length and 4 cm in width

$$\text{so } A = 5 \times 4$$

$$A = 20 \text{ cm}^2$$

So, the area is 20 cm².

Add both areas together to find the total area. $12 + 20 = 32$

The total area is 32 cm². You can count the sq cm to verify the answer.

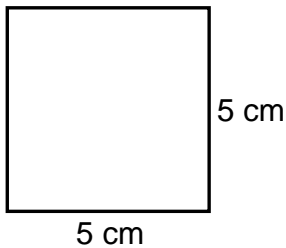
Area: Skill 5 - 22B

Area of Rectangles Use a formula to find the area of a square.

The formula is: area of a square = side x side or $A = s \times s$.

Examples

Find the area of the square.



Use the formula for the area of a square.

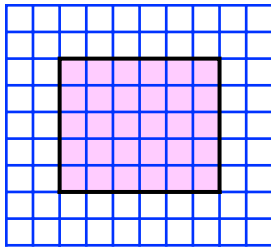
$A = \text{side times side or}$

$$A = s \times s = s^2$$

$$A = 5 \text{ cm} \times 5 \text{ cm} = 25 \text{ cm}^2$$

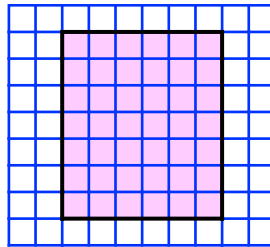
Directions: Find the area of each figure.

1.



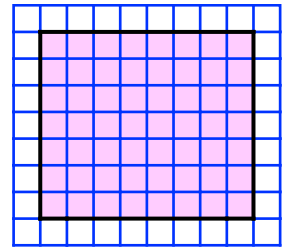
the area is _____ units²

2.



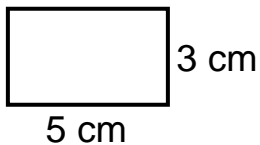
the area is _____ units²

3.



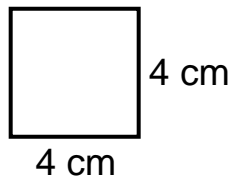
the area is _____ units²

4.



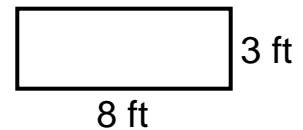
the area is _____ cm²

5.



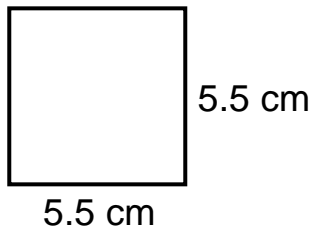
the area is _____ cm²

6.



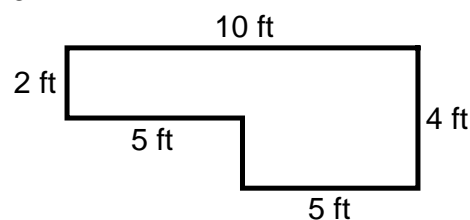
the area is _____ ft²

7.



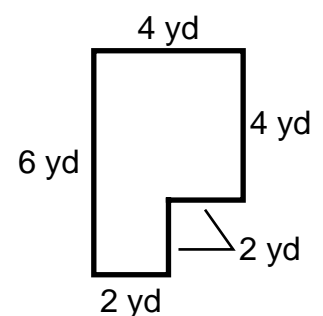
the area is _____ cm²

8.



the area is _____ ft²

9.



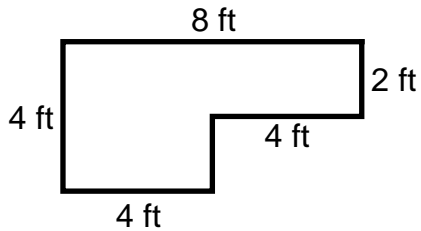
the area is _____ yd²

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Area of Rectangles

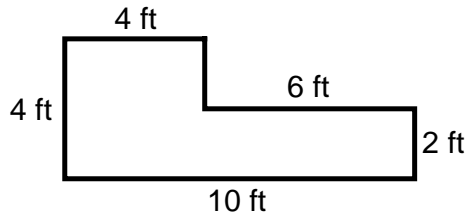
Directions: Find the area of each figure. Write answer in units². Some examples are ft², m², cm².

10.



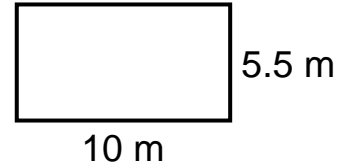
the area is _____

11.



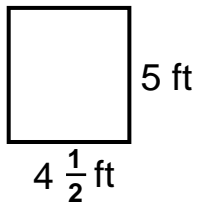
the area is _____

12.



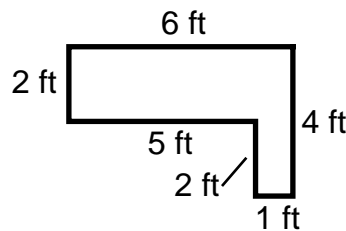
the area is _____

13.



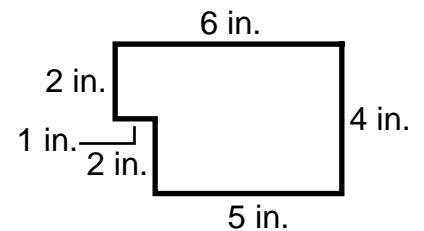
the area is _____

14.



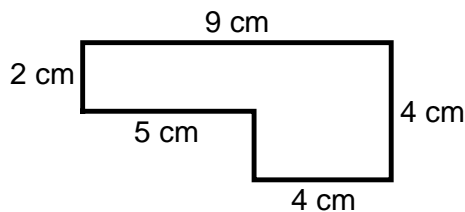
the area is _____

15.



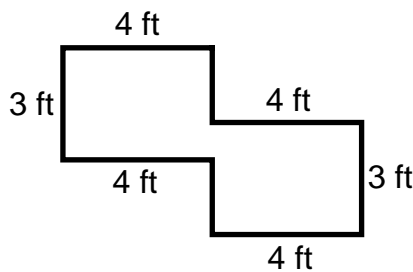
the area is _____

16.



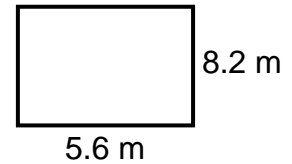
the area is _____

17.



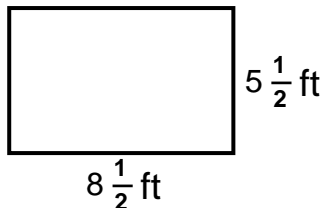
the area is _____

18.



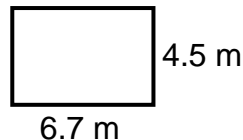
the area is _____

19.



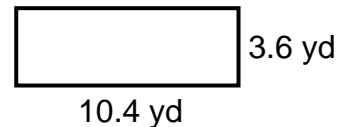
the area is _____

20.



the area is _____

21.



the area is _____

Answer Key Skill 22B Grade 5

- | | | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. 30 units ² | 2. 42 units ² | 3. 56 units ² | 4. 15 cm ² | 5. 16 cm ² |
| 6. 24 ft ² | 7. 30.25 cm ² | 8. 30 ft ² | 9. 20 yd ² | 10. 24 ft ² |
| 11. 28 ft ² | 12. 55 m ² | 13. $22\frac{1}{2}$ ft ² | 14. 14 ft ² | 15. 22 in. ² |
| 16. 26 cm ² | 17. 24 ft ² | 18. 45.92 m ² | 19. $46\frac{3}{4}$ ft ² | 20. 30.15 m ² |
| 21. 37.44 yd ² | | | | |