ALBERT

Name _____ Date _____

Understanding Area Worksheet

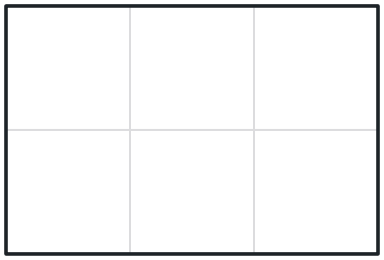
Grade 3 · Common Core 3.MD.C.5

> Recognize area as an attribute of plane figures and understand concepts of area measurement.

Practice

Builds the skill step by step.

1. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



2. What is a unit square?

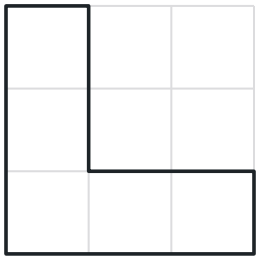
   A. A square with sides 4 units long

   B. A square with sides 1 unit long

   C. A line that is 1 unit long

   D. Any shape with 4 sides

3. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



4. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



5. What does the area of a shape tell you?

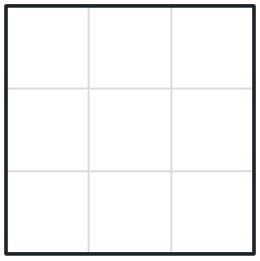
   A. How many sides the shape has

   B. How many corners the shape has

   C. The distance around the shape

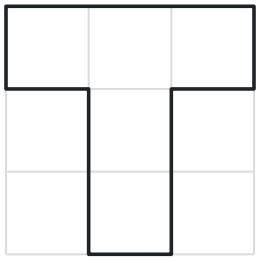
   D. How many unit squares cover it with no gaps or overlaps

6. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



7. A shape is covered by 7 unit squares with no gaps or overlaps. What is its area?

8. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



9. Which unit is used to measure area?

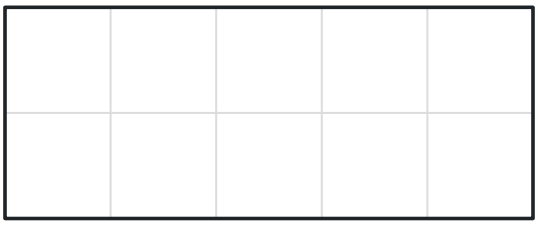
   A. square units

   B. inches

   C. minutes

   D. liters

10. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



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On Level

Grade-level practice.

1. Leo covers a rectangle with square tiles, but he leaves gaps between the tiles. Why is his count of tiles not the area?

   A. Tiles can never be used to measure area.

   B. Nothing is wrong. His count is the area.

   C. The gaps are part of the rectangle, so his count is too small.

   D. He should count the sides instead.

2. Kim covers a shape with sticky notes, but some of them overlap. What happens to her count?

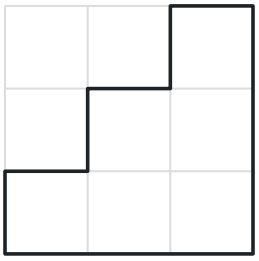
   A. It is exactly right.

   B. It is too big, because some space is counted twice.

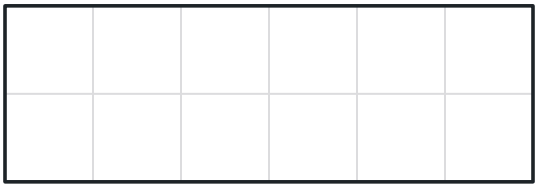
   C. It tells the distance around the shape.

   D. It is too small, because some space is missed.

3. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



4. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



5. Shape A is covered by 8 unit squares. Shape B is covered by 11 unit squares. How much more area does Shape B have?

6. Each rectangle below is made of unit squares. Which two rectangles have the same area?

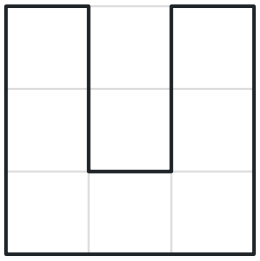
   A. 2 rows of 6 and 3 rows of 4

   B. 2 rows of 5 and 3 rows of 3

   C. 1 row of 8 and 3 rows of 3

   D. 4 rows of 4 and 3 rows of 5

7. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



8. Mia's rectangle is covered by 3 rows of unit squares with 5 squares in each row. What is its area?

9. A square tile is 1 inch long on each side. 6 tiles cover a card with no gaps or overlaps. What is the area of the card?

   A. 4 square inches

   B. 6 inches

   C. 24 square inches

   D. 6 square inches

10. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



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Challenge

Multi-step and word problems that stretch it.

1. Shape A is 4 unit squares in one row. Shape B is 2 rows of 2 unit squares. Which is true?

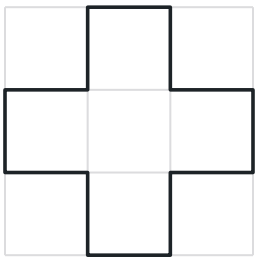
   A. You can't compare their areas.

   B. Shape B has more area because it is taller.

   C. They have the same area.

   D. Shape A has more area because it is longer.

2. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



3. A shape is made of 9 unit squares. Jon takes away 2 of the squares. What is the area of the new shape?

4. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



5. A rectangle is covered by 12 unit squares. Which could be its rows?

   A. 4 rows of 4

   B. 2 rows of 5

   C. 3 rows of 3

   D. 3 rows of 4

6. Ana and Ben each made a shape from unit squares. Ana used 14 squares. Ben used 6 fewer squares than Ana. What is the area of Ben's shape?

7. Theo found the area of a square that is 4 rows of 4 unit squares. He counted only the squares along the edges and got 12. What is the real area?

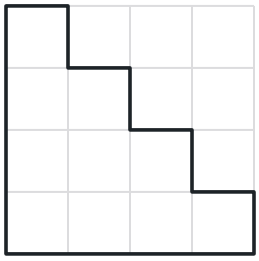
   A. 20 square units

   B. 16 square units

   C. 12 square units

   D. 8 square units

8. Each small square is 1 square unit. Count only the squares inside the dark outline. What is the area of the shape?



9. A tile has an area of 6 square units. How many of these tiles would cover a shape with an area of 18 square units with no gaps or overlaps?

10. A rectangle is 2 rows tall and is covered by 14 unit squares. How many unit squares are in each row?