Area by Counting Unit Squares Worksheet

Grade 3 · Common Core 3.MD.C.6

> Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).

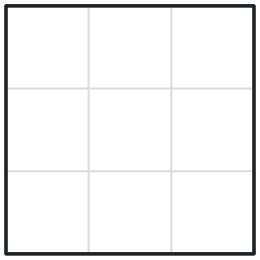
Practice

Builds the skill step by step.

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



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



3. Which unit is best for measuring the area of a classroom floor?

   A. square centimeters

   B. square meters

   C. liters

   D. meters

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



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



6. Which unit is best for measuring the area of a postage stamp?

   A. square centimeters

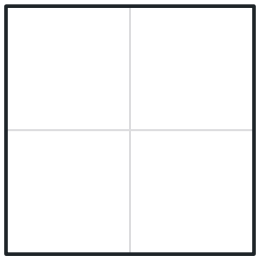
   B. square meters

   C. square feet

   D. centimeters

7. A tabletop is covered by 12 sticky notes with no gaps or overlaps. What is its area in sticky notes?

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



9. A square is 1 inch long on each side. What is its area?

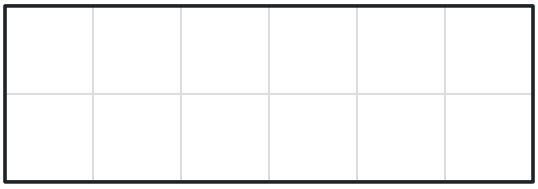
   A. 1 inch

   B. 4 inches

   C. 4 square inches

   D. 1 square inch

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



ALBERT

Name _____ Date _____

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On Level

Grade-level practice.

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



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



3. Ari measures a rug with square tiles that are 1 foot on each side and gets 15. Which is the right way to write the area?

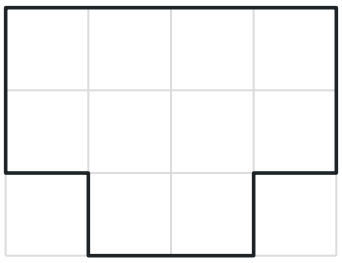
   A. 15 square feet

   B. 15 feet

   C. 15 tiles long

   D. 15 inches

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



5. A bulletin board is covered by 4 rows of index cards with 6 cards in each row, with no gaps or overlaps. What is its area in index cards?

6. Which unit is best for measuring the area of a notebook cover?

   A. inches

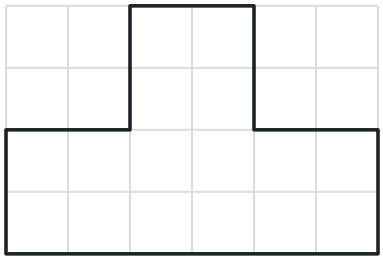
   B. square feet

   C. square meters

   D. square inches

7. Garden bed A covers 9 square meters. Garden bed B covers 14 square meters. How much more area does bed B cover?

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



9. Pat covers a shelf with 10 square tiles that are 1 centimeter on each side. Lee covers the same shelf with square tiles that are 1 inch on each side. Who needs more tiles?

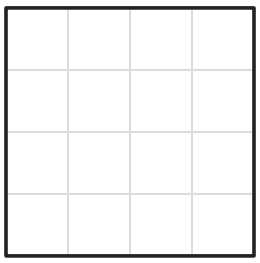
   A. Lee, because inch tiles are smaller

   B. Pat, because centimeter tiles are smaller

   C. They need the same number

   D. Lee, because inches are longer

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



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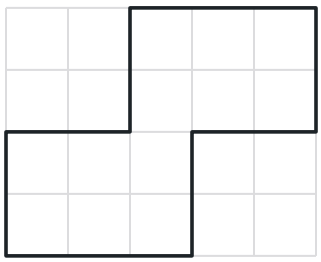
Challenge

Multi-step and word problems that stretch it.

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



2. A patio is made of square stones that are 1 foot on each side. It has 3 rows of 7 stones. Then 4 more stones are added. What is the area of the patio now?

3. Two posters have the same area. One is covered by 20 square inch tiles. How many 1-inch square tiles cover the other poster?

   A. 20

   B. 10

   C. 40

   D. It can't be known

4. A square rug has 6 one-foot square tiles along each side. What is its area?

5. Nico measured a desk with square sticky notes and got 18. Mae measured the same desk with larger square cards and got 9. Why are the answers different?

   A. One of them must have counted wrong.

   B. Area changes when you use a different unit.

   C. The cards are bigger, so fewer of them cover the desk.

   D. The cards are smaller, so more of them cover the desk.

6. A wall mural is made of square tiles 1 meter on each side. It has 2 rows of 8 tiles. 3 tiles fall off. What area is still covered by tiles?

7. A rectangle is covered by 18 one-centimeter square tiles in 3 equal rows. How many tiles are in each row?

8. Which shape has the greatest area?

   A. 3 rows of 6 square inches

   B. 5 rows of 3 square inches

   C. 2 rows of 9 square inches

   D. 4 rows of 5 square inches

9. Room A has an area of 12 square meters. Room B has twice as much area. What is the area of Room B?

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

