MATH

Area by counting squares

Name _____ Date _____

I can find area by counting unit squares.

1 How it works

Area is the space inside a shape. Cover it with squares that are all the same size, with no gaps and no overlaps. Count the squares. A shape made of 12 squares has an area of 12 square units.

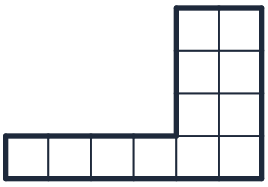


12 squares
= 12 square units

2 Count the squares: what is the area?

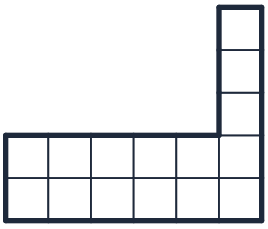
Each square is 1 square unit.

1



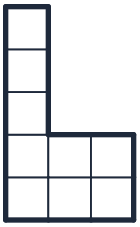
_____ sq units

2



_____ sq units

3



_____ sq units

4



_____ sq units

How did I do? ☆ ☆ ☆

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Compare and draw

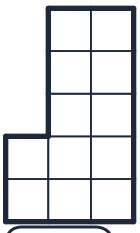
Name _____ Date _____

I can compare areas and draw a shape with a given area.

1 Find each area

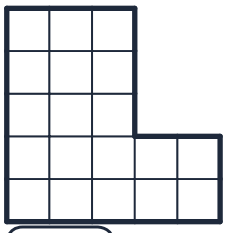
Count the squares.

A



sq units

B



sq units

C



sq units

1. Which shape has the largest area: A, B or C?
2. How many more squares does it have than the smallest shape?

2 Draw a shape

Color whole squares that touch side by side.

Draw a shape with an area of 7 square units.

Draw a shape with an area of 12 square units.

How did I do? ☆ ☆ ☆

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Rows of squares

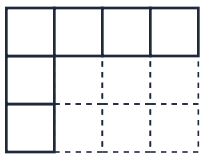
Name _____ Date _____

I can count rows of squares to find the area.

1 Finish the rows, then find the area

The dashed squares are there too.

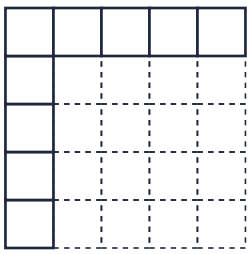
1



[ ] rows of [ ]

Area = [ ] sq units

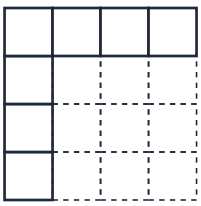
2



[ ] rows of [ ]

Area = [ ] sq units

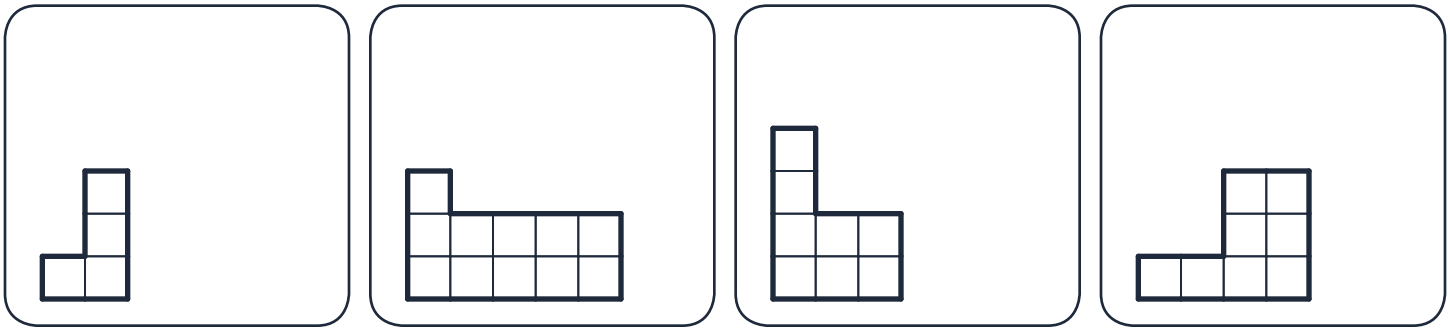
3



[ ] rows of [ ]

Area = [ ] sq units

2 Circle the two shapes with the same area



How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can solve problems about area and perimeter.

1 Read, draw, answer

A quick sketch helps.

1 Noor covers a tray with square tiles. The tray holds 4 rows of 5 tiles. What is the area of the tray?

Answer:

2 Ben paints a shape on grid paper using 9 squares. Zara paints a shape using 12 squares. Whose shape has the larger area, and by how much?

Answer:

3 A tray of cake has 3 rows of 6 squares. You eat one row. How many squares are left?

Answer:

4 A rug is 2 squares wide and 7 squares long. Another rug is 4 squares wide and 4 squares long. Which rug covers more floor?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: area by counting squares

1 Page 1

Area: 1) 12 square units, 2) 15 square units, 3) 9 square units, 4) 6 square units.

2 Page 2

Areas: A) 12 square units, B) 19 square units, C) 6 square units. 1) B 2) 13.
Draw a shape: any shape of 7 and 12 whole squares.

3 Page 3

Rows of squares: 1) 3 rows of 4 = 12 square units, 2) 5 rows of 5 = 25 square units, 3) 4 rows of 4 = 16 square units.
Same area: shapes 3 and 4 (8 square units each; counting from the left).

4 Page 4: word problems

1) 20 square units (4 rows of 5)
2) Zara's shape, by 3 square units
3) 12 squares (2 rows of 6)
4) The 4 by 4 rug (16 squares, the other is 14)

5 Teaching tip

Let children build the shapes with square tiles or sticky notes first. Counting in rows also prepares them for multiplying.

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