Name & Surname: _____ Class: _____ Date: _____

Cover It, Count It

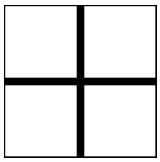
Find area by counting squares

About 35 minutes Level ★★★☆☆

Area Means Cover

Area is the amount of space taken up by a flat shape. We find it by counting 1-cm **squares** inside.

- Check straight sides and square corners for a rectilinear shape.
- Tick each **square** inside as you count row by row.
- Split an L-shape with one cut, count parts, add and write cm².

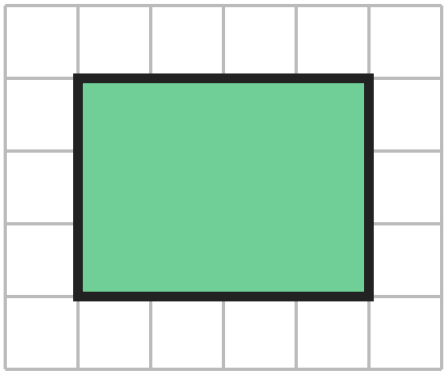


Task A

/4

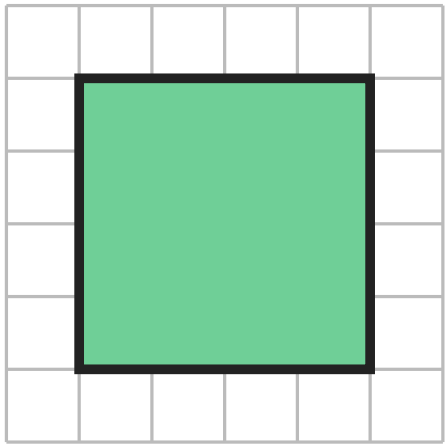
Count the squares inside each shape on the grid. Write the area in cm².

1



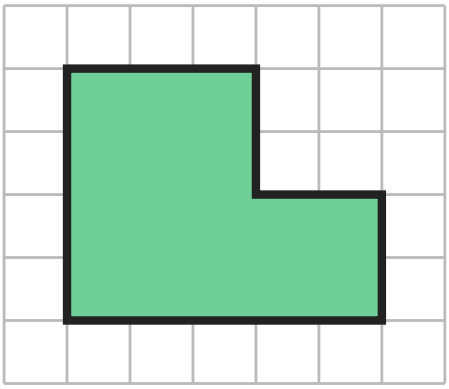
Area: _____ squares

2



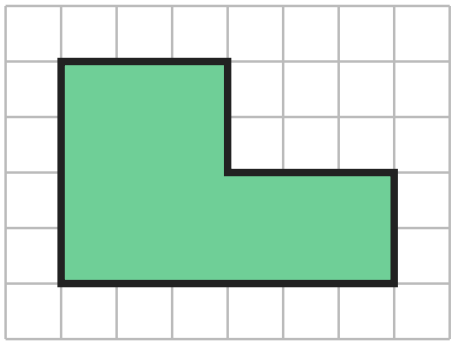
Area: _____ squares

3



Area: _____ squares

4



Area: _____ squares

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Count Squares Fast

Practise counting rows and writing area in cm².

Task B

/10

Practise counting squares and writing area in cm².

WARM UP

1 A rectangle has 2 **rows** with 6 **squares** in each row. What is its **area**?

Answer: _____

2 A rectangle has 3 **rows** with 5 **squares** in each row. What is its **area**?

Answer: _____

3 A **square** is 4 **squares** by 4 squares. What is its **area**?

Answer: _____

PRACTISE

4 An **L-shape** splits into 12 cm² and 8 cm². What is its total **area**?

Answer: _____

5 An **L-shape** splits into 10 cm² and 6 cm². Student A writes only 10 cm². What should the total **area** be?

Answer: _____

6 Tick each **square** as you count. An L-shape has 14 **squares** in one part and 5 squares in the other. What is its **area**?

Answer: _____

PROBLEM SOLVING

7 A **book** cover on squared paper is 5 cm by 4 cm. Each **square** is 1 cm². What is its **area**?

Answer: _____

8 A **noticeboard** is an L-shape. Part 1 has **area** 15 cm² and Part 2 has area 9 cm². What is the total area?

Answer: _____

9 Explain how you know you counted every **square** in an **area** count.

Answer: _____

10 Why must you write cm² and not just 16 for **area**? Explain using **squares**.

Answer: _____

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Split Tricky Shapes

Split L-shapes, add parts and avoid missing squares.

Key words

area: squares needed to cover a flat shape

rectilinear shape: flat shape with straight sides and square corners

square centimetre (cm²): area of a 1 cm by 1 cm square

split: cut into smaller rectangles to count easily

Task C

/10

Split each L-shape, count squares and add for total area.

WARM UP

1. A rectangle has 4 **rows** with 6 **squares** in each row. What is its **area**?

Answer: _____

2. A rectangle has 2 **rows** with 9 **squares** in each row. What is its **area**?

Answer: _____

3. A **square** is 5 **squares** by 5 squares. What is its **area**?

Answer: _____

PRACTISE

4. An **L-shape** splits into 15 cm² and 7 cm². What is its total **area**?

Answer: _____

5. An **L-shape** split a different way makes 9 cm² and 11 cm². What is its total **area**?

Answer: _____

6. Student B counted 13 **squares** but missed 2 **squares**. What is the correct **area**?

Answer: _____

PROBLEM SOLVING

7. A **garden** bed on a **grid** is an L-shape with parts 12 cm² and 10 cm². What is its **area**?

Answer: _____

8. A **play mat** has 3 **rows** of 7 squares. What is its **area**?

Answer: _____

9. Student A says splitting an L-shape changes its **area**. Is she right? Explain using **squares**.

Answer: _____

10. Explain why ticking **squares** row by row helps you count **area** accurately.

Answer: _____

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Solve Area Problems

Use splits and adds to solve real-life area puzzles.

Task D

/6

Split each L-shape, count squares, then add to find area.

1. A display board on 1-cm squared paper is 6 cm by 4 cm. Each **square** is 1 cm². What is its **area**?

Working

Answer

_____ **cm²**

2. A reading mat is an **L-shape**. Part A is 15 cm² and Part B is 9 cm². What is the total **area**?

Working

Answer

_____ **cm²**

3. A bookmark is an **L-shape**. Part A has 12 **squares** and Part B has 7 squares of 1 cm². What is its **area**?

Working

Answer

_____ **cm²**

Task E

/12

Write the name, number of sides and corners for each shape.

1



Name _____

Sides _____

Corners _____

2

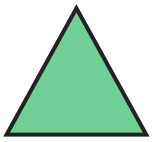


Name _____

Sides _____

Corners _____

3

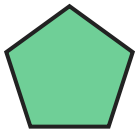


Name _____

Sides _____

Corners _____

4



Name _____

Sides _____

Corners _____

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Check and Try

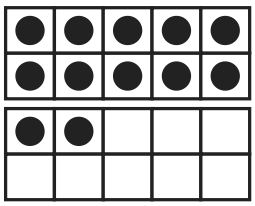
Count the squares quickly and write the area.

Task F

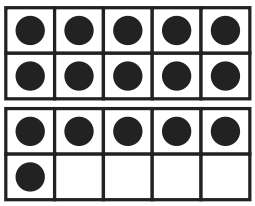
/5

Count the dots quickly and write the number.

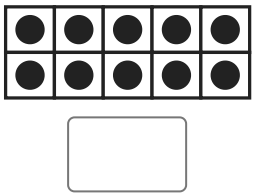
1



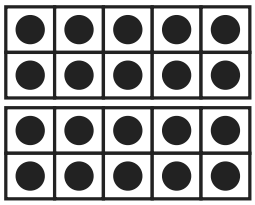
2



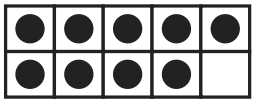
3



4



5



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Cover It, Count It

Task G

/2

Follow the split and add method, then try the area question yourself.

WORKED EXAMPLE

Find the area of an L-shape split into 10 cm² and 6 cm².

1. Split the L-shape into two rectangles with one straight cut.
2. Count squares inside each part: 10 and 6.
3. Add parts: 10 + 6 = 16 and write cm².

Answer: 16 cm²

YOUR TURN

Find the area of an L-shape split into 12 cm² and 8 cm².

Answer: _____

WORKED EXAMPLE

Find the area of a rectangle with 5 rows of 3 squares.

1. Count squares in one row: 3.
2. Count rows: 5.
3. Add rows: 3 + 3 + 3 + 3 + 3 = 15 and write cm².

Answer: 15 cm²

YOUR TURN

Find the area of a rectangle with 6 rows of 3 squares.

Answer: _____

How did I do?

Circle a face for each line.

I can explain area as squares covering a shape.	☹	😐	☺
I can count squares to find area in cm².	☹	😐	☺
I can split an L-shape and add parts to find area.	☹	😐	☺

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Answer sheet: Cover It, Count It

Task A

1. area = 12 squares
2. area = 16 squares
3. area = 16 squares
4. area = 18 squares

Task B

1. 12 cm²
2. 15 cm²
3. 16 cm²
4. 20 cm²
5. 16 cm²
6. 19 cm²
7. 20 cm²
8. 24 cm²
9. I ticked each square row by row so I did not miss or double-count.
10. Because area counts square centimetres that cover the shape, so cm² shows square units.

Task C

1. 24 cm²
2. 18 cm²
3. 25 cm²
4. 22 cm²
5. 20 cm²
6. 15 cm²
7. 22 cm²
8. 21 cm²
9. No, splitting does not change area because you still count the same inside squares, just in two groups.
10. It stops missing a square or counting one twice, so the total of inside squares is right.

Task D

1. 24 cm² (6 × 4 = 24)
2. 24 cm² (15 + 9 = 24)
3. 19 cm² (12 + 7 = 19)

Task E

1. rectangle: 4 sides, 4 corners
2. square: 4 sides, 4 corners
3. triangle: 3 sides, 3 corners
4. pentagon: 5 sides, 5 corners

Task F

1. 12
2. 16
3. 10
4. 20
5. 9

Task G

1. 20 cm²
2. 18 cm²

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