



GRADE 3 / WATCH MR DJ SOLVE

AREA AND UNIT SQUARES

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Draw 2 rows of 3 unit squares with no gaps. Find the area.**

- 1 Each square covers one square unit.
- 2 There are $2 \times 3 = 6$ squares.
- 3 Area counts covered units.

Answer: **6 square units****REMEMBER** understand area as covering a region with unit squares without gaps or overlaps.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.



GRADE 3 / WORKED METHODS

AREA AND UNIT SQUARES

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

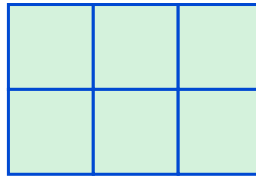
One unit square

1 unit by 1 unit covers 1 square unit

1. Define a square with side length 1 unit.
2. Its covered region is one area unit.
3. Use matching copies as tiles.



1 square unit



$$2 \times 3 = 6 \text{ square units}$$



GRADE 3 / WORKED METHODS

AREA AND UNIT SQUARES

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

An exact covering

2 rows of 3 unit squares cover 6 square units

1. Tiles meet edge to edge.
2. No region is missed or counted twice.
3. Count $3+3=6$ square units.

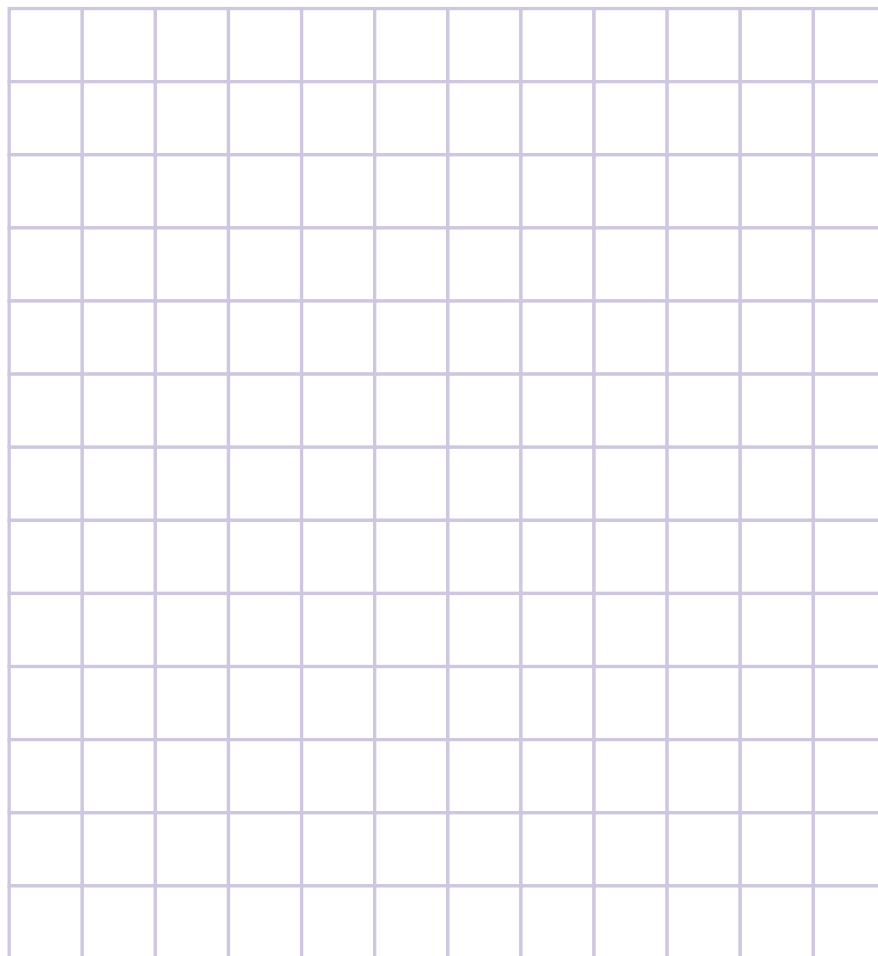
GRADE 3 / MATHEMATICAL WORK TOOL

AREA AND UNIT SQUARES

Use labels and a clear scale.



Draw and label a model. Choose what one unit square means.





GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

☛ Mild

1. A region is covered by 7 unit squares with no gaps or overlaps. Name its area.

My answer / conclusion: _____

☛ Mild

2. A tile is 1 cm by 1 cm. What is its area? Draw 2 such tiles and find their combined area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

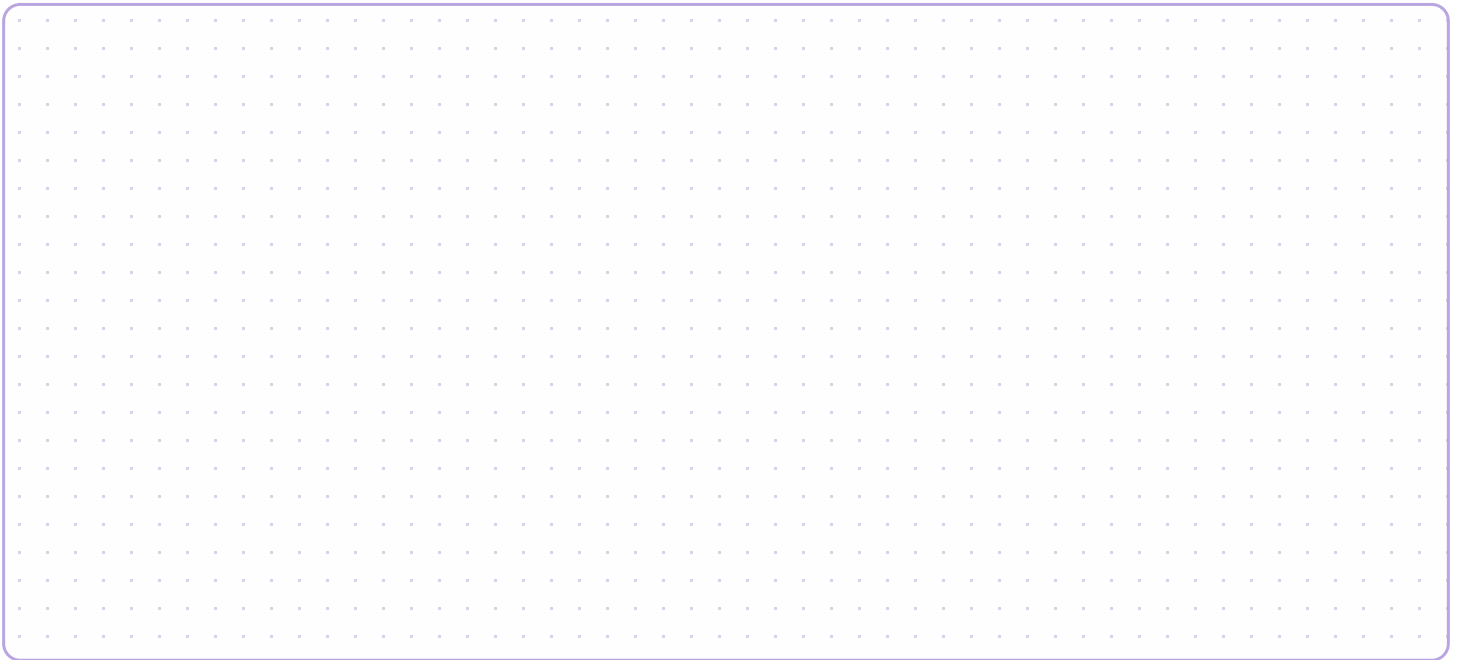
Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Medium

3. Draw a shape with area 6 square units that is not one straight row. Label the unit.



My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Medium

4. A region has 6 square units covered and 2 square units uncovered inside its boundary. Find the whole region's area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

5. Explain what “no gaps and no overlaps” means using 3 unit squares.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

6. Digit counts 6 tiles that overlap and declares area 6. Is this justified?

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🌶️🌶️🌶️ Spicy

7. Can two shapes each have area 6 square units and look different? Draw and explain.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA AND UNIT SQUARES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Extra Spicy

8. If the unit square were larger, would you need more or fewer units to cover the same region of 6 current square units? Explain with a drawing.

My answer / conclusion: _____