



GRADE 3 / WATCH MR DJ SOLVE

AREA, MULTIPLICATION AND ADDITION

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****A rectangle is 3 cm by 4 cm. Tile or draw rows and find its area.**

- 1** Each row has 4 unit squares.
- 2** There are 3 rows.
- 3** $3 \times 4 = 12$ square cm.

Answer: **12 square cm****REMEMBER** connect tiled area to multiplication and add areas of disjoint rectangles.

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, MULTIPLICATION AND ADDITION

Read a complete example before trying the matching method.

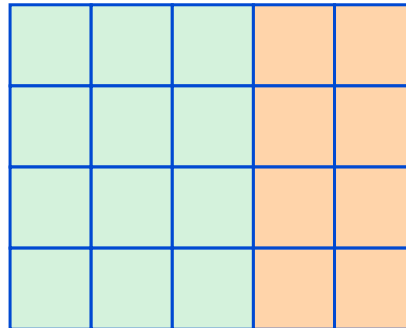


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A rectangle split

$$4 \times 5 = 4 \times 3 + 4 \times 2 = 20$$

1. Keep all four rows.
2. Split five columns into three and two.
3. $12 + 8 = 20$ square units.



$$4 \times 3 + 4 \times 2 = 20 \text{ square units}$$



GRADE 3 / WORKED METHODS

AREA, MULTIPLICATION AND ADDITION

Read a complete example before trying the matching method.



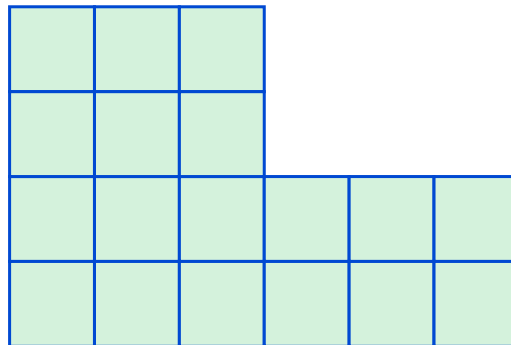
Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

An L-shape

$6 \times 2 + 3 \times 2 = 18$ square units

1. Split the L into a 6-by-2 base and a 3-by-2 top.
2. Their interiors do not overlap.
3. $12 + 6 = 18$ square units.

Two rectangles share an edge, not an area



$$6 \times 2 + 3 \times 2 = 18 \text{ square units}$$



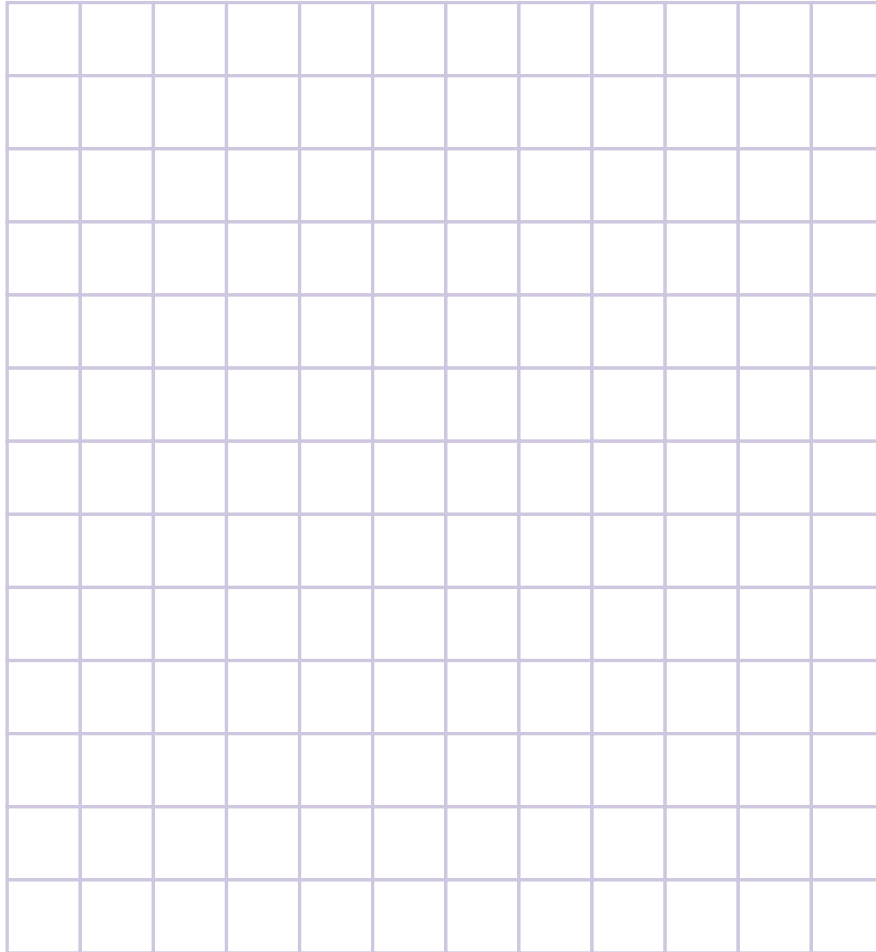
GRADE 3 / MATHEMATICAL WORK TOOL

AREA, MULTIPLICATION AND ADDITION

Use labels and a clear scale.



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





GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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 rectangle is 3 m by 6 m. Split the longer side into 4 m and 2 m. Find area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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

2. Two rectangles share only an edge: 3 by 4 units and 2 by 4 units. Find combined area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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 an L-shape from a 5-by-2 rectangle and a 2-by-4 rectangle above one end. They share only an edge. Find area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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 3-by-4 rectangle has area 12. Split it another way and check the total.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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. A rectangle has area 12 square cm and one side 3 cm. Find the other side.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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 adds $3+4$ to find a 3-by-4 rectangle's area. Explain the needed operation.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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. Two 3-by-4 rectangles overlap on exactly 2 square units. Can their covered area be found by just adding? Explain.

My answer / conclusion: _____



GRADE 3 / PRACTICE

AREA, MULTIPLICATION AND ADDITION

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. Design two different splits of a 3-by-6 rectangle. Explain why the area totals agree.

My answer / conclusion: _____