



GRADE 4 / WATCH MR DJ SOLVE

AREA AND PERIMETER OF RECTANGLES

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****A rectangle is 7 cm by 3 cm. Draw and label it. Find BOTH area and perimeter.**

- 1 Area counts unit squares: $7 \times 3 = 21 \text{ cm}^2$.
- 2 Perimeter counts the boundary: $2 \times (7 + 3) = 20 \text{ cm}$.
- 3 Square units and length units describe different quantities.

Answer: **21 cm²; 20 cm****REMEMBER** Area counts covering squares; perimeter counts boundary length. Label units and distinguish them.

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 4 / WORKED METHODS

AREA AND PERIMETER OF RECTANGLES

Read a complete example before trying the matching method.

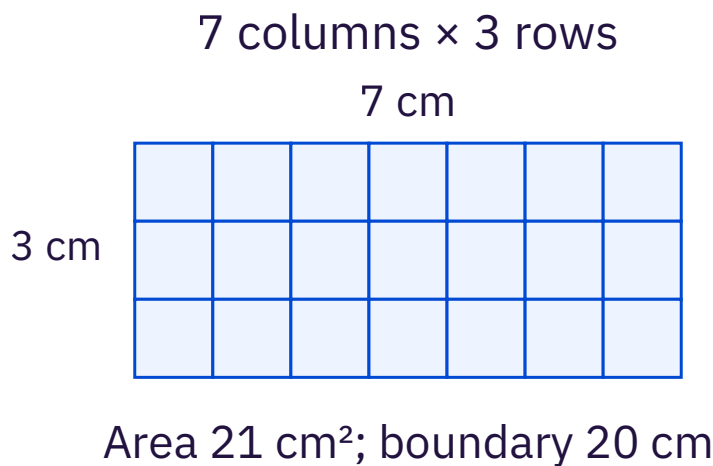


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Separate covering from boundary

7 cm by 3 cm: area 21 cm²; perimeter 20 cm

1. Covering: $7 \times 3 = 21$ unit squares.
2. Boundary: $7 + 3 + 7 + 3 = 20$ cm.
3. Area uses cm²; perimeter uses cm.





GRADE 4 / WORKED METHODS

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Compare equal-area rectangles

6×4 and 8×3 both have area 24 cm²

1. Area: $6 \times 4 = 8 \times 3 = 24$.
2. Perimeters: $2 \times 10 = 20$ and $2 \times 11 = 22$.
3. Equal areas need not give equal perimeters.



GRADE 4 / PRACTICE

AREA AND PERIMETER OF RECTANGLES

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 8 cm by 4 cm. Draw and label it. Find BOTH area and perimeter.

My answer / conclusion: _____



GRADE 4 / PRACTICE

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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. A rectangle is 6 cm by 5 cm. Draw and label it. Find BOTH area and perimeter.

My answer / conclusion: _____



GRADE 4 / PRACTICE

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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. A rectangle's area is 21 cm^2 and its width is 3 cm. Find its length and perimeter.

My answer / conclusion: _____



GRADE 4 / PRACTICE

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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. Draw two different whole-number-sided rectangles with area 24 cm^2 . Compare their perimeters.

My answer / conclusion: _____



GRADE 4 / PRACTICE

AREA AND PERIMETER OF RECTANGLES

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 rectangular garden is 9 m by 4 m. Fence has a 1 m opening for a gate. How many meters of fence are needed?

My answer / conclusion: _____



GRADE 4 / PRACTICE

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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. Tan doubles both side lengths of a rectangle. Predict the changes in area and perimeter.

Use a picture.

My answer / conclusion: _____



GRADE 4 / PRACTICE

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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. Does a longer perimeter always mean a larger area? Find two rectangles that disprove it.

Grid area for drawing rectangles and showing work.

My answer / conclusion: _____



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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. List every whole-number-sided rectangle with perimeter 16 cm, counting rotations once. Which has the largest area?

My answer / conclusion: _____