



GRADE 3 / WATCH MR DJ SOLVE

PERIMETER AND MISSING SIDES

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****A rectangle has sides 3 cm and 5 cm. Find perimeter and label all four sides.**

- 1** Opposite sides are equal.
- 2** $3+5+3+5=16$.
- 3** Perimeter measures distance around.

Answer: **16 cm****REMEMBER** find polygon perimeters, missing sides and area-perimeter comparisons.

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

PERIMETER AND MISSING SIDES

Read a complete example before trying the matching method.

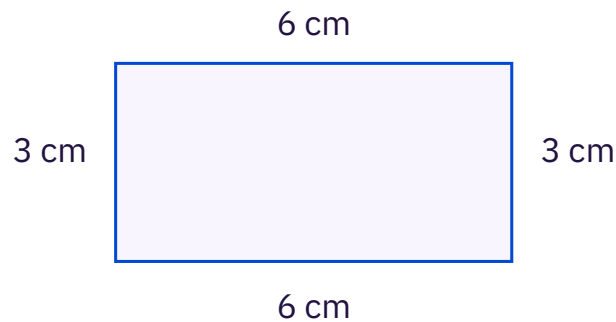


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Around a rectangle

$$6+3+6+3=18 \text{ cm}$$

1. Label both pairs of equal sides.
2. Follow the whole outside boundary once.
3. Add lengths; perimeter is 18 cm.



$$6+3+6+3=18 \text{ cm}$$

GRADE 3 / WORKED METHODS**PERIMETER AND MISSING SIDES**

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 missing side**Perimeter 18, width 3: length 6**

1. Two widths use $3+3=6$ cm.
2. $18-6=12$ cm remain for two lengths.
3. $12\div 2=6$ cm each.

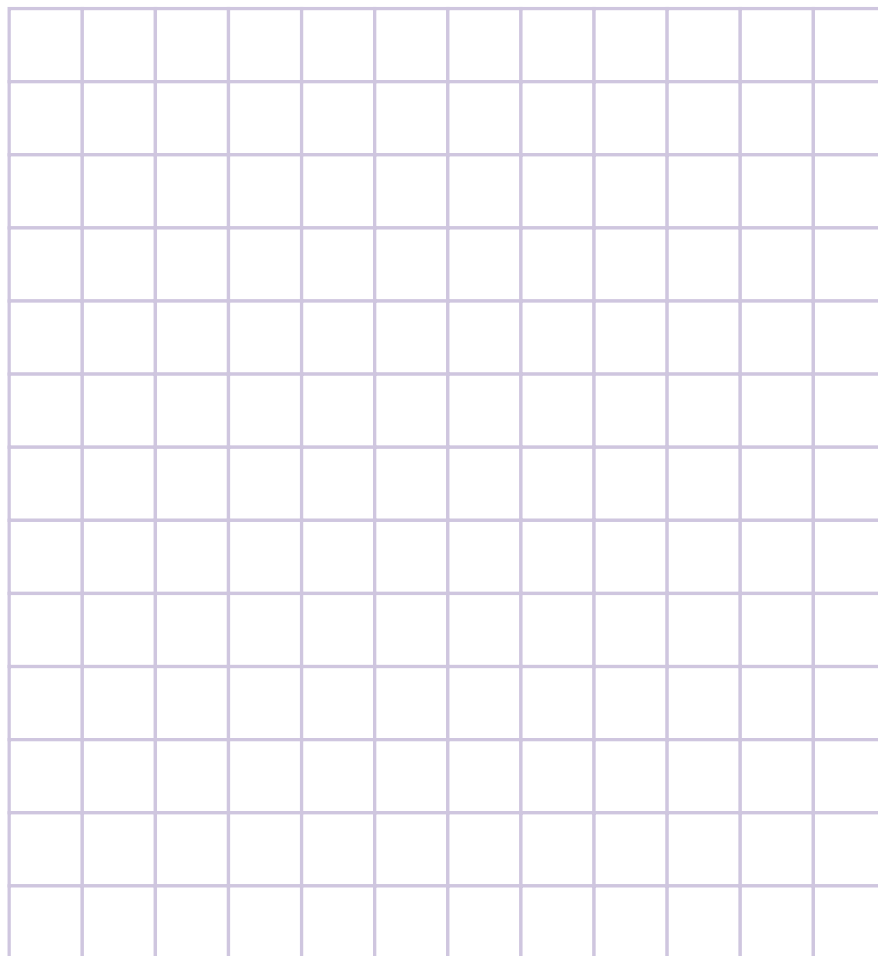
GRADE 3 / MATHEMATICAL WORK TOOL

PERIMETER AND MISSING SIDES

Use labels and a clear scale.



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





GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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 triangle has sides 3 m, 5 m and 6 m. Find perimeter.

Grid area for working out the perimeter of the triangle.

My answer / conclusion: _____

◀ Mild

2. A rectangle has perimeter 16 cm. One side is 3 cm. Find the adjacent side.

Grid area for working out the adjacent side of the rectangle.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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 rectangles 3 by 5 and 2 by 6. Compare perimeters and areas.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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 square has side 4 m. Find perimeter and area. Label units.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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 shape has boundary lengths 3, 5, 4, 6 cm. Find perimeter.

Grid area for working out the solution.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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.

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6. Digit gives 15 cm as the perimeter of a 3-by-5 rectangle. Explain the confusion.

Grid area for working out the solution.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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.

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7. Two rectangles have area 15 square units. Must their perimeters match? Use a 1-by-15 rectangle as a comparison.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PERIMETER AND MISSING SIDES

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. Find all whole-number rectangles with perimeter 16. Explain how you know your list is complete.

Grid area for working out the solution.

My answer / conclusion: _____