



GRADE 3 / WATCH MR DJ SOLVE

## QUADRILATERALS AND SHAPE ATTRIBUTES

Start with the same example used in the lesson slides.



### WATCH MR DJ SOLVE

Draw a rectangle with adjacent sides 3 and 5 units. Label its four sides and right angles.

- 1 Draw opposite sides of equal lengths.
- 2 Check all four corners are right angles.
- 3 A rectangle belongs to the quadrilateral family.

Answer: **A quadrilateral with four right angles.**



**REMEMBER** classify shapes by attributes, including overlapping quadrilateral families.

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

**QUADRILATERALS AND SHAPE ATTRIBUTES**

Read a complete example before trying the matching method.

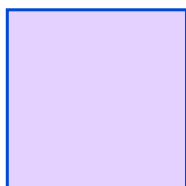


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

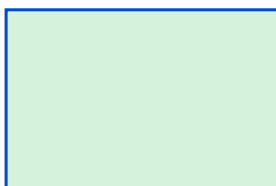
**A square has several names****Square, rectangle, rhombus, quadrilateral**

1. A square has four straight sides.
2. Its four right angles make it a rectangle.
3. Its four equal sides make it a rhombus too.

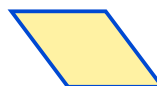
A square fits both special quadrilateral families



square



rectangle



rhombus

All three have four straight sides



GRADE 3 / WORKED METHODS

## QUADRILATERALS AND SHAPE ATTRIBUTES

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 need not be a square**

#### **A 3-by-5 rectangle is not a square**

1. It still has four right angles.
2. Its adjacent side lengths differ.
3. The square rule of four equal sides fails.



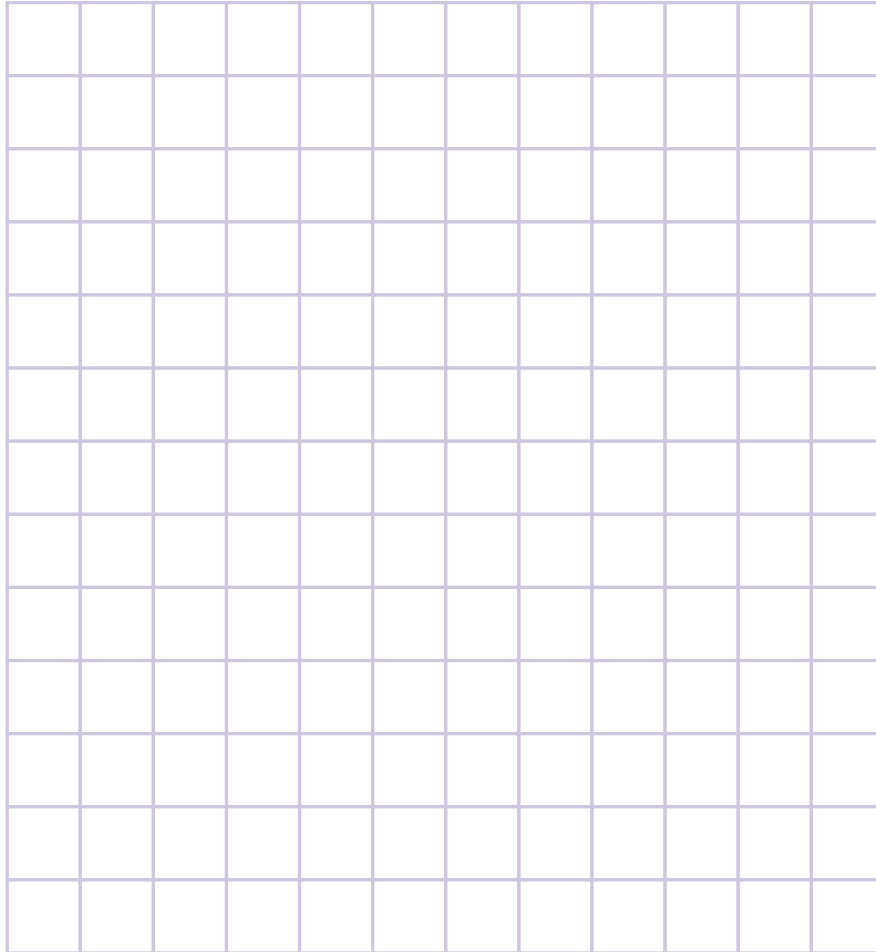
GRADE 3 / MATHEMATICAL WORK TOOL

# QUADRILATERALS AND SHAPE ATTRIBUTES

Use labels and a clear scale.



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





GRADE 3 / PRACTICE

# QUADRILATERALS AND SHAPE ATTRIBUTES

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. Draw a square with side 3 units. Explain why it is a rectangle.**

My answer / conclusion: \_\_\_\_\_



GRADE 3 / PRACTICE

## QUADRILATERALS AND SHAPE ATTRIBUTES

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. Draw a rhombus with side 3 units that is not a square. Explain your choices.**

My answer / conclusion: \_\_\_\_\_



Date \_\_\_\_\_

## QUADRILATERALS AND SHAPE ATTRIBUTES

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

**Medium** 3. Classify a 3-by-3 square as a square, rectangle, rhombus and quadrilateral.

**Medium** 4. Classify a 3-by-5 rectangle. Is it also a square? Explain.

Quadrilaterals and shape attributes / practice · page 7



GRADE 3 / PRACTICE

## QUADRILATERALS AND SHAPE ATTRIBUTES

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. Draw a four-sided figure that is neither a rectangle nor a rhombus. Label at least two different side lengths, including 3.**

My answer / conclusion: \_\_\_\_\_



GRADE 3 / PRACTICE

## QUADRILATERALS AND SHAPE ATTRIBUTES

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 says a tilted square of side 3 is no longer a square. Explain which attributes decide.**

Grid area for writing the answer.

My answer / conclusion: \_\_\_\_\_



GRADE 3 / PRACTICE

## QUADRILATERALS AND SHAPE ATTRIBUTES

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. Is every rectangle with side 3 also a square? Give a counterexample.**

Grid area for working out the answer.

My answer / conclusion: \_\_\_\_\_



GRADE 3 / PRACTICE

## QUADRILATERALS AND SHAPE ATTRIBUTES

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. Make a family diagram containing a 3-unit square and a 3-by-5 rectangle. Explain shared and extra properties.**

My answer / conclusion: \_\_\_\_\_