



GRADE 3 / WATCH MR DJ SOLVE

PARTITIONING SHAPES INTO EQUAL AREAS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Draw one rectangle divided into 2 equal-area parts. Name each part's fraction.**

- 1** Define the whole rectangle.
- 2** Partition so each part covers the same area.
- 3** Each is $\frac{1}{2}$ of the whole.

Answer: $\frac{1}{2}$ **REMEMBER** partition shapes into equal-area parts and name each part as a unit fraction.

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

PARTITIONING SHAPES INTO EQUAL AREAS

Read a complete example before trying the matching method.

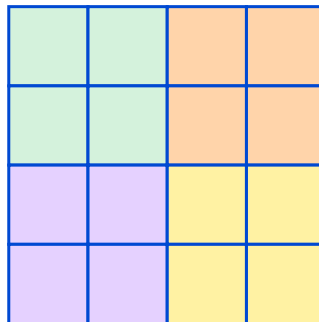


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Equal area

Four equal parts of a 4-by-4 square

1. The whole has 16 unit squares.
2. Each part contains 4 unit squares.
3. Each equal-area part is $\frac{1}{4}$ of the whole.



Four regions / 4 squares each / each $\frac{1}{4}$



GRADE 3 / WORKED METHODS

PARTITIONING SHAPES INTO EQUAL AREAS

Read a complete example before trying the matching method.

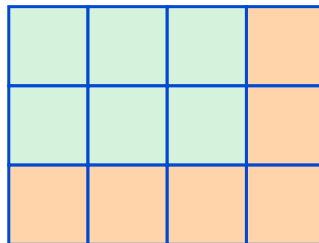


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Different outlines, same area

Two halves of a 3-by-4 rectangle

1. The whole has 12 unit squares.
2. Use a 2-by-3 block and the connected L-shaped region left over.
3. Each region covers 6 squares, so each is $\frac{1}{2}$ despite different outlines.



Two regions / 6 squares each / each $\frac{1}{2}$



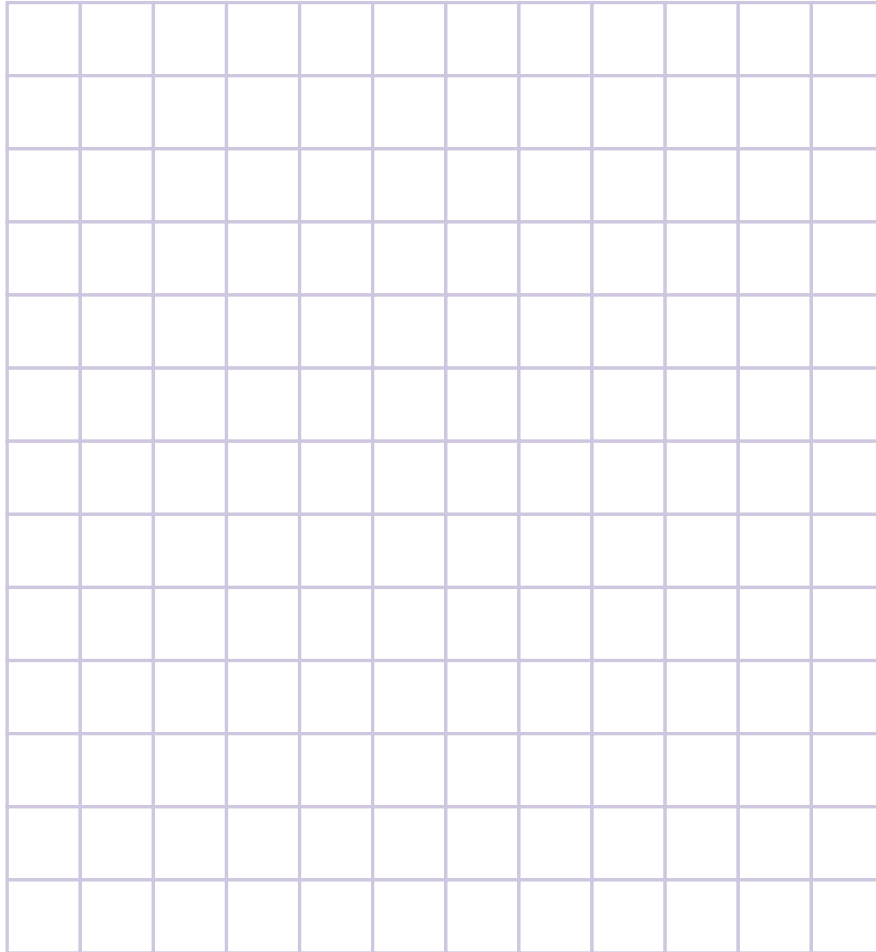
GRADE 3 / MATHEMATICAL WORK TOOL

PARTITIONING SHAPES INTO EQUAL AREAS

Use labels and a clear scale.



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





GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

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 shape of area 6 square units has 2 equal-area parts. Find the area of one part.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

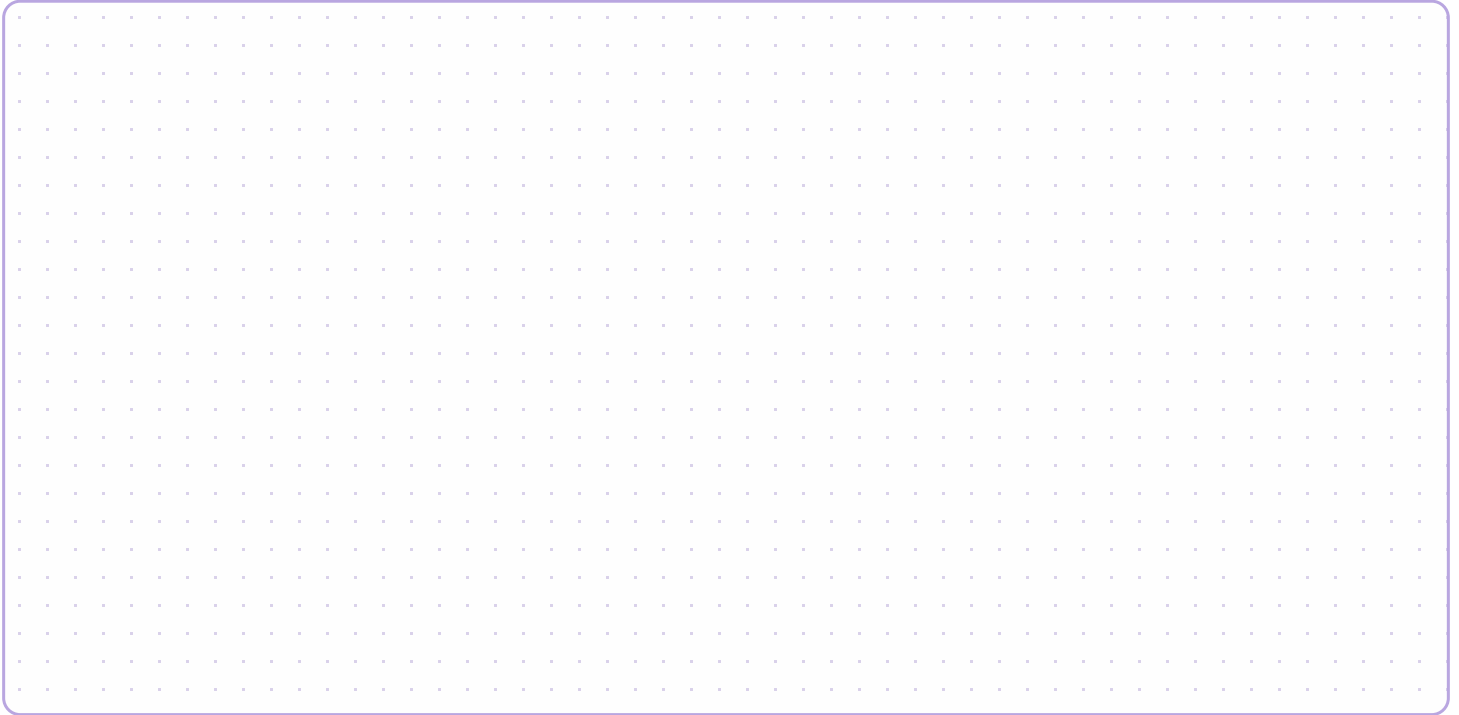
Show the method, label your work, and explain the reasoning requested.



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 2-by-2 unit rectangle and split it into 2 equal-area regions.



My answer / conclusion: _____



GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

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 two different equal-area partitions of a rectangle into 2 parts.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

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 whole contains 6 unit squares. A selected part contains 3. Explain why its fraction is $\frac{1}{2}$.

Grid area for drawing and explanation.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

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. Can 2 equal-area pieces have different shapes? Show a labeled example or explain your reasoning.

My answer / conclusion: _____



Date _____

PARTITIONING SHAPES INTO EQUAL AREAS

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

6. Digit divides a rectangle into 2 strips of unequal widths and names each $\frac{1}{2}$. Explain the missing requirement.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

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. If a whole is partitioned into 2 equal-area pieces, must each piece have area 1 square unit? Explain.

My answer / conclusion: _____



GRADE 3 / PRACTICE

PARTITIONING SHAPES INTO EQUAL AREAS

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 a whole of area 8 square units and partition it into 2 equal-area parts in two ways. Explain each.

My answer / conclusion: _____