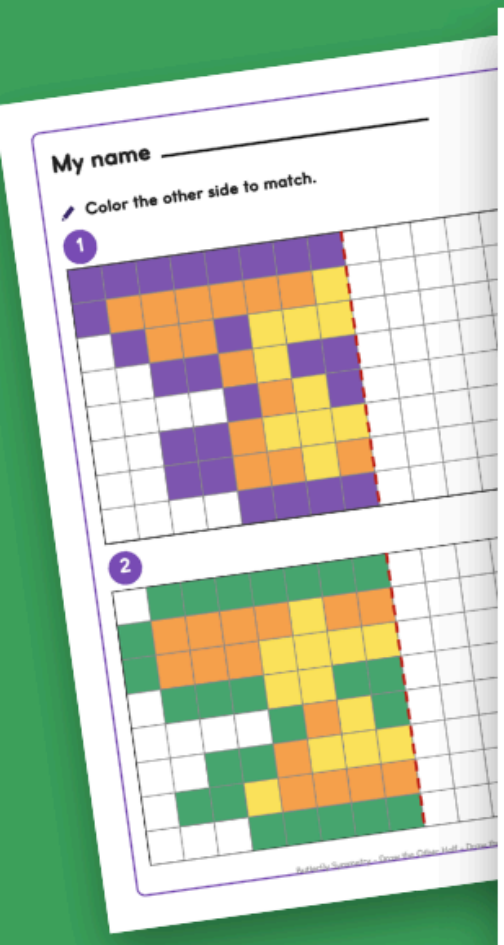
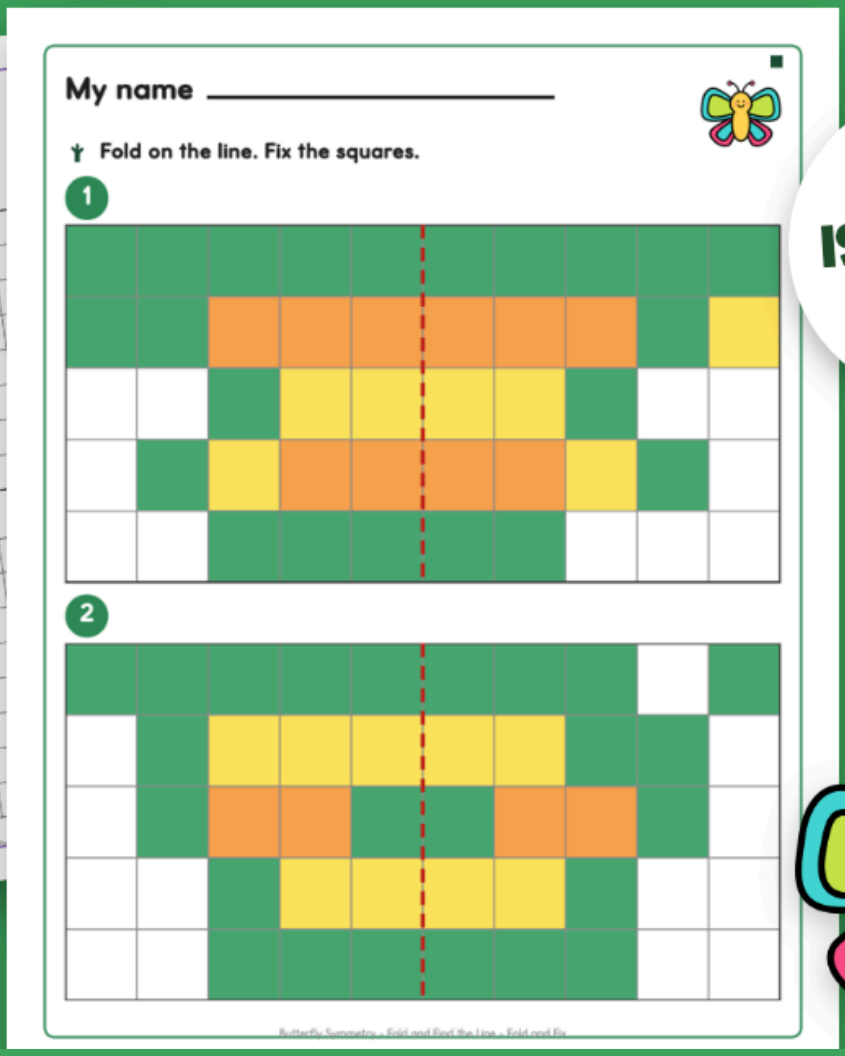
# BUTTERFLY SYMMETRY

## Draw the Other Half, Grades K-2




19 SHEETS



Bright Path Sped

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## This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name line, the writing lines, the count boxes and the recording sheet are type-in fields. The grids are printed pictures: students color them with crayons on the printed page.
- It works offline. No account, no subscription, no internet connection needed after you download it.

## Print at 100 percent

Turn off fit to page and shrink to fit so the squares and cut pieces stay big enough for small hands. Every page prints in color or in black and white. The four wing colors differ in darkness, so a black and white copy still shows which squares match.

## Student work

A filled-in recording sheet carries a student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands.

## Need help?

If a box will not behave or a page will not print the way you expect, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update: re-download it any time from My Purchases.

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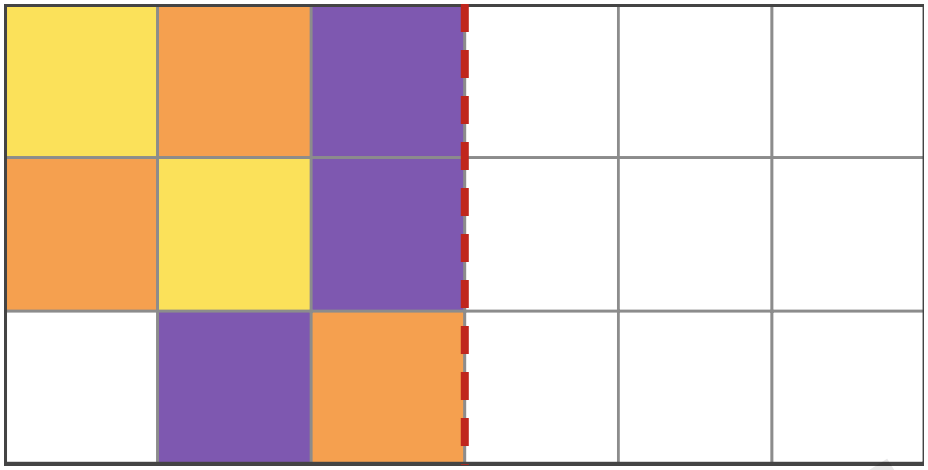
PREVIEW

# My name _____



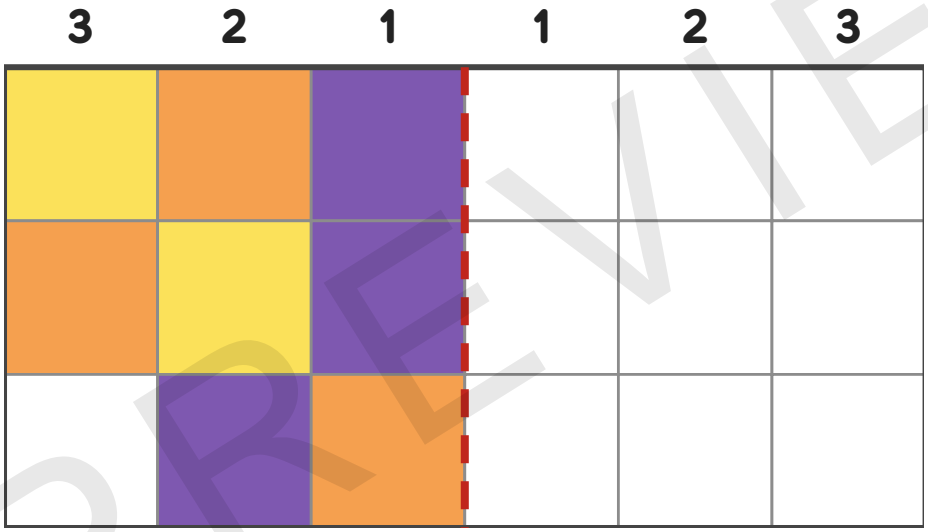
**Watch how it works.**

1



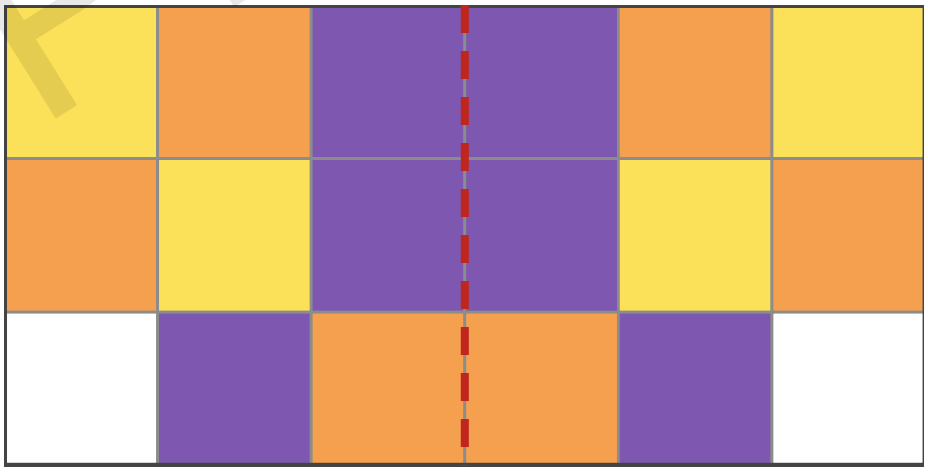
Look at the left side.

2




Count squares out from the line. Color the same square on the other side.

3



Fold on the line. The colors touch.

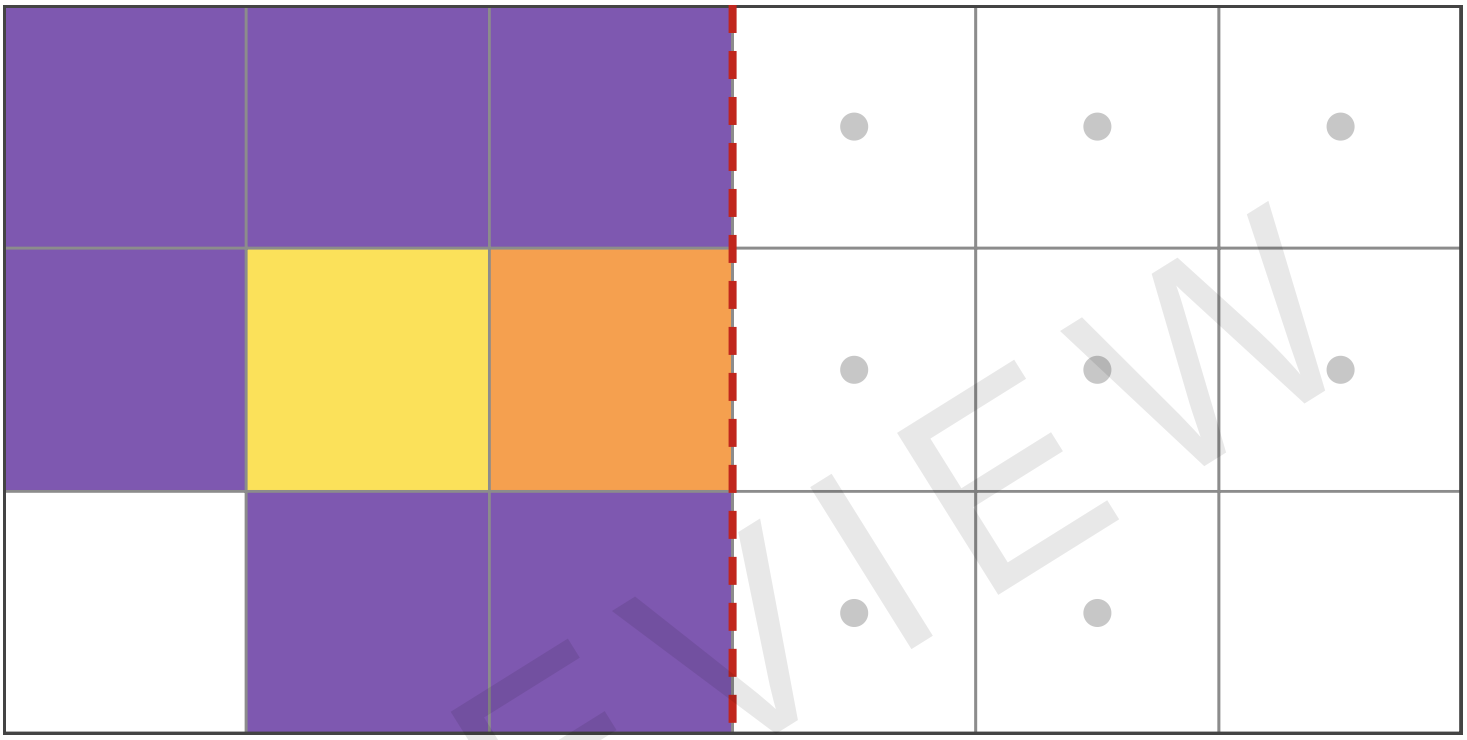
PREVIEW

# My name _____

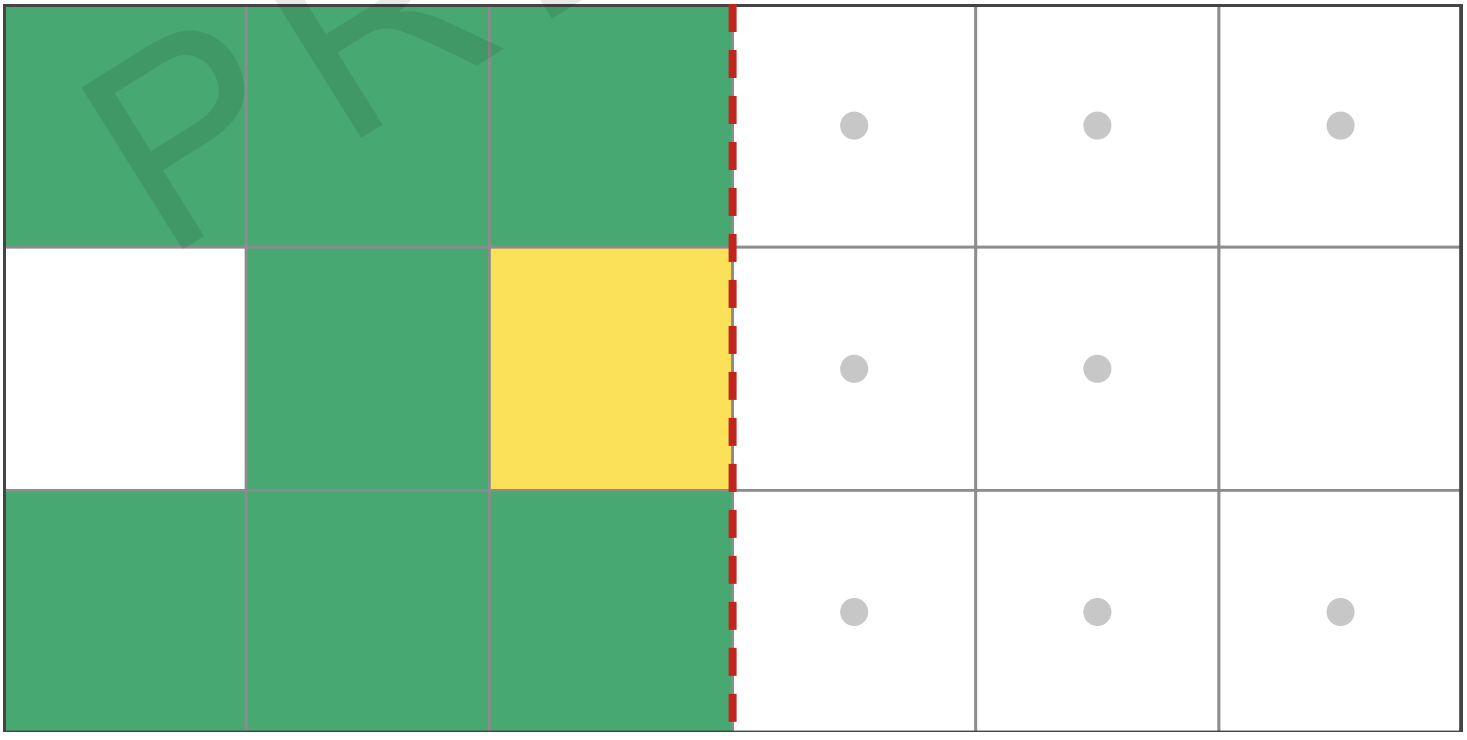


**Color the other side to match.**

**1**



**2**



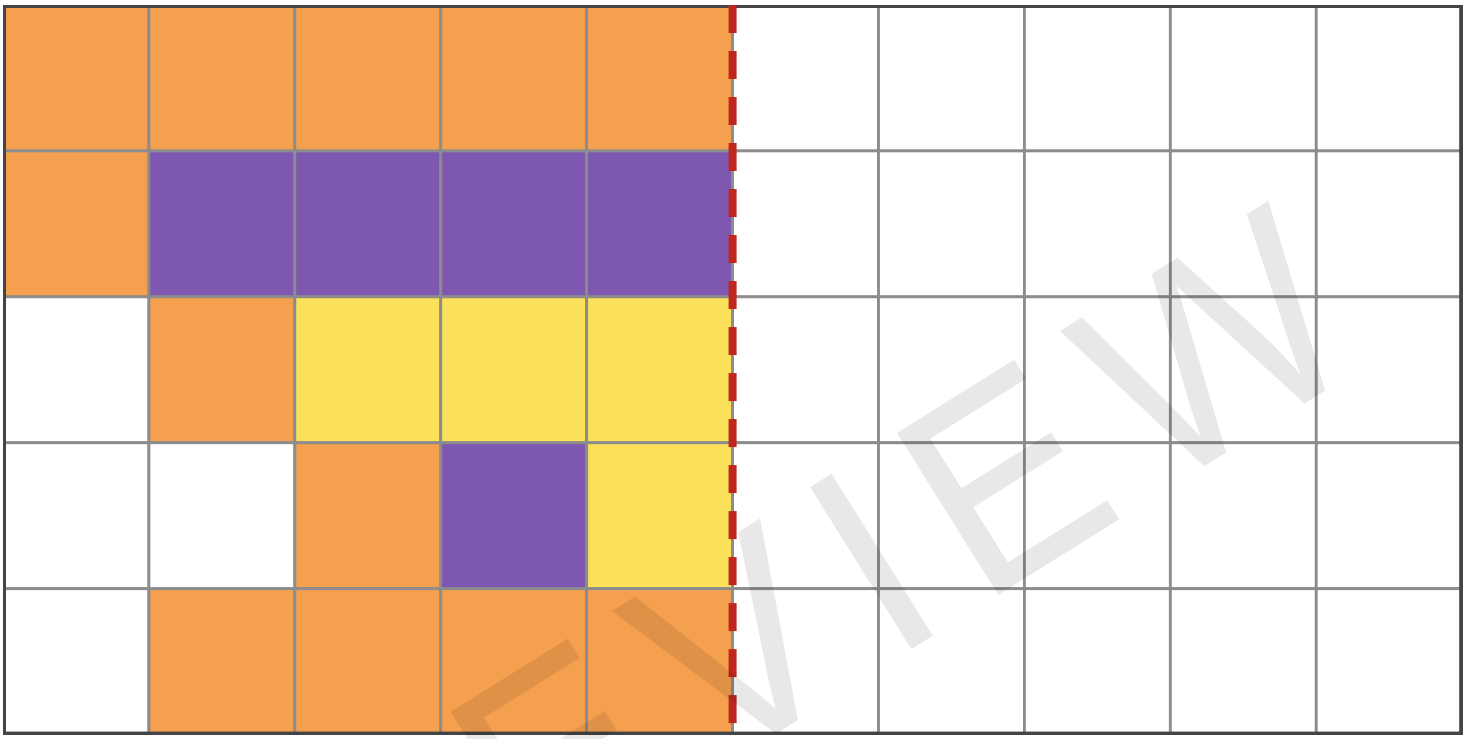
PREVIEW

# My name _____

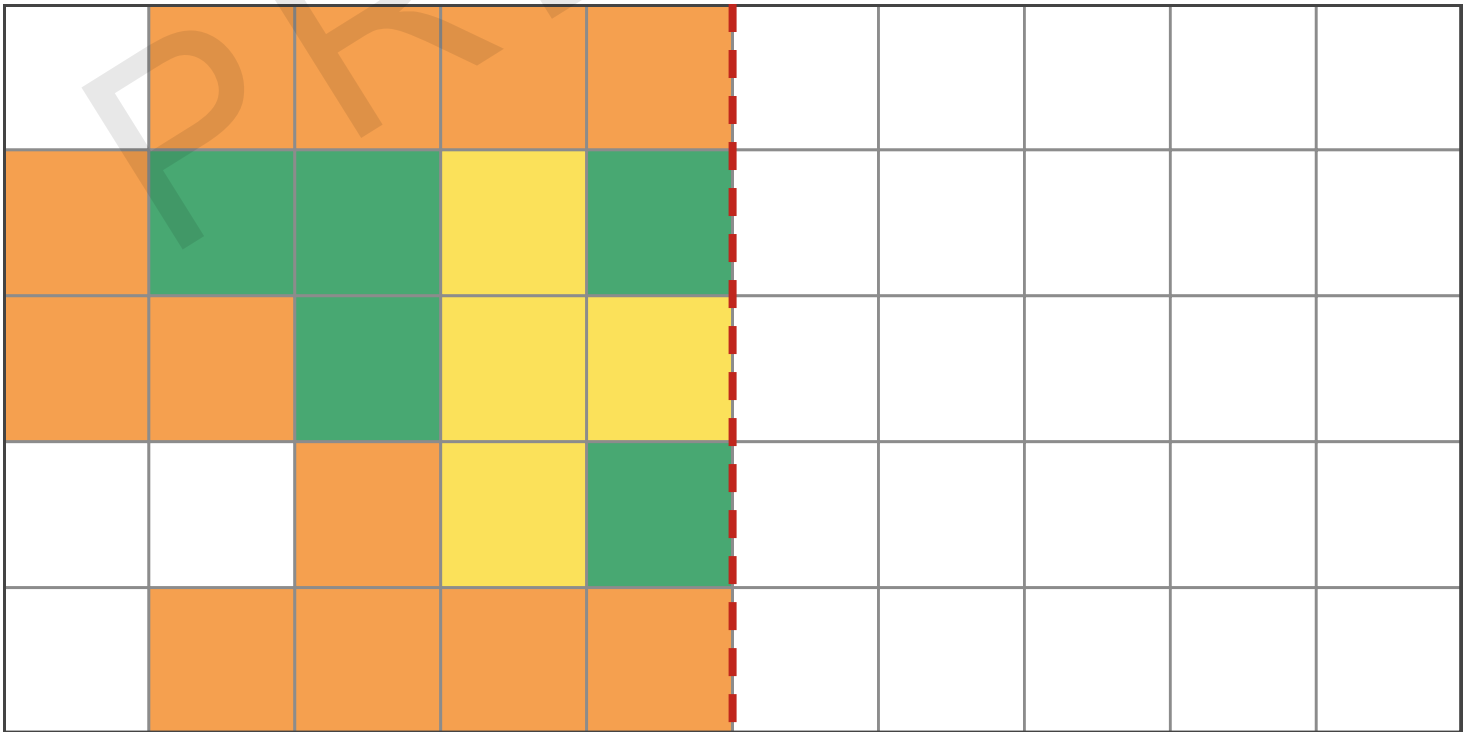


**Color the other side to match.**

**1**



**2**



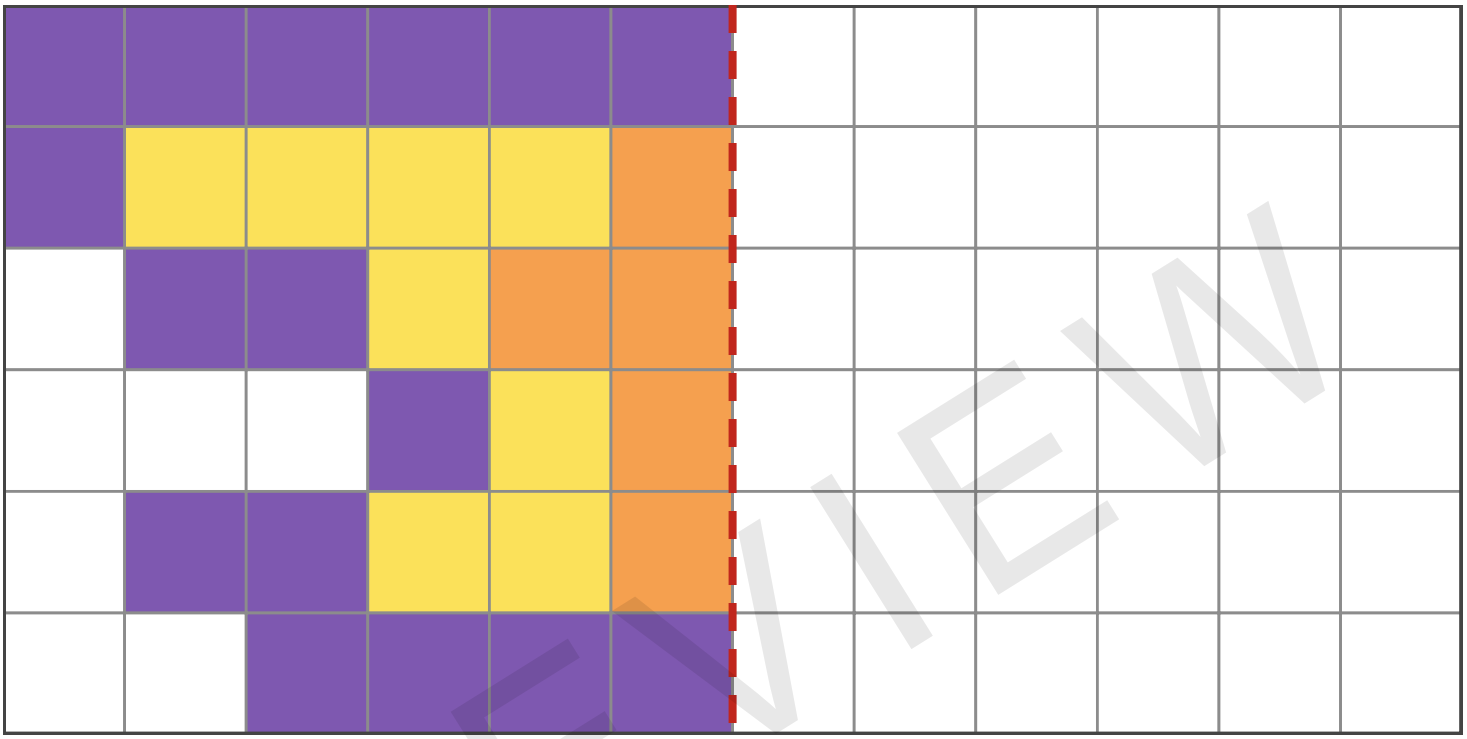
PREVIEW

# My name _____

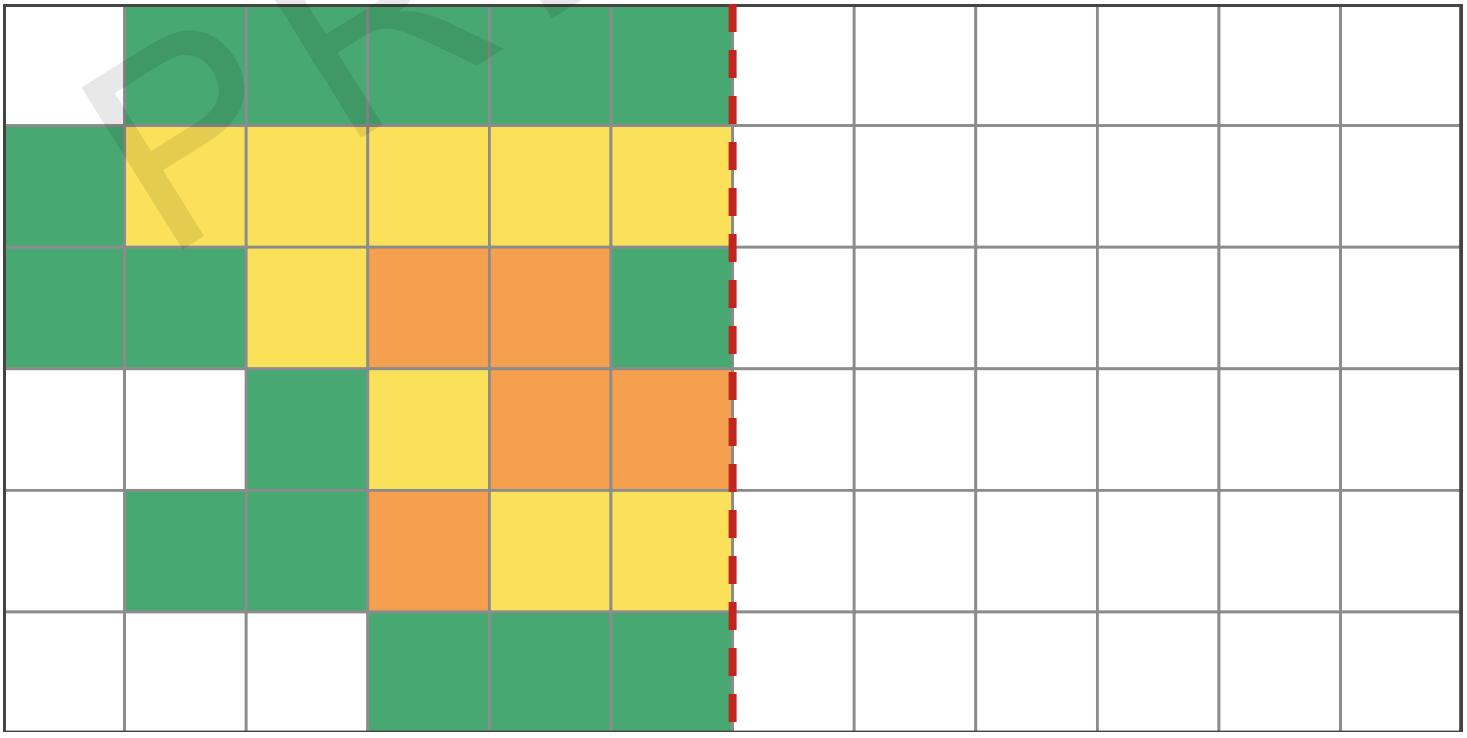


**Color the other side to match.**

**1**



**2**



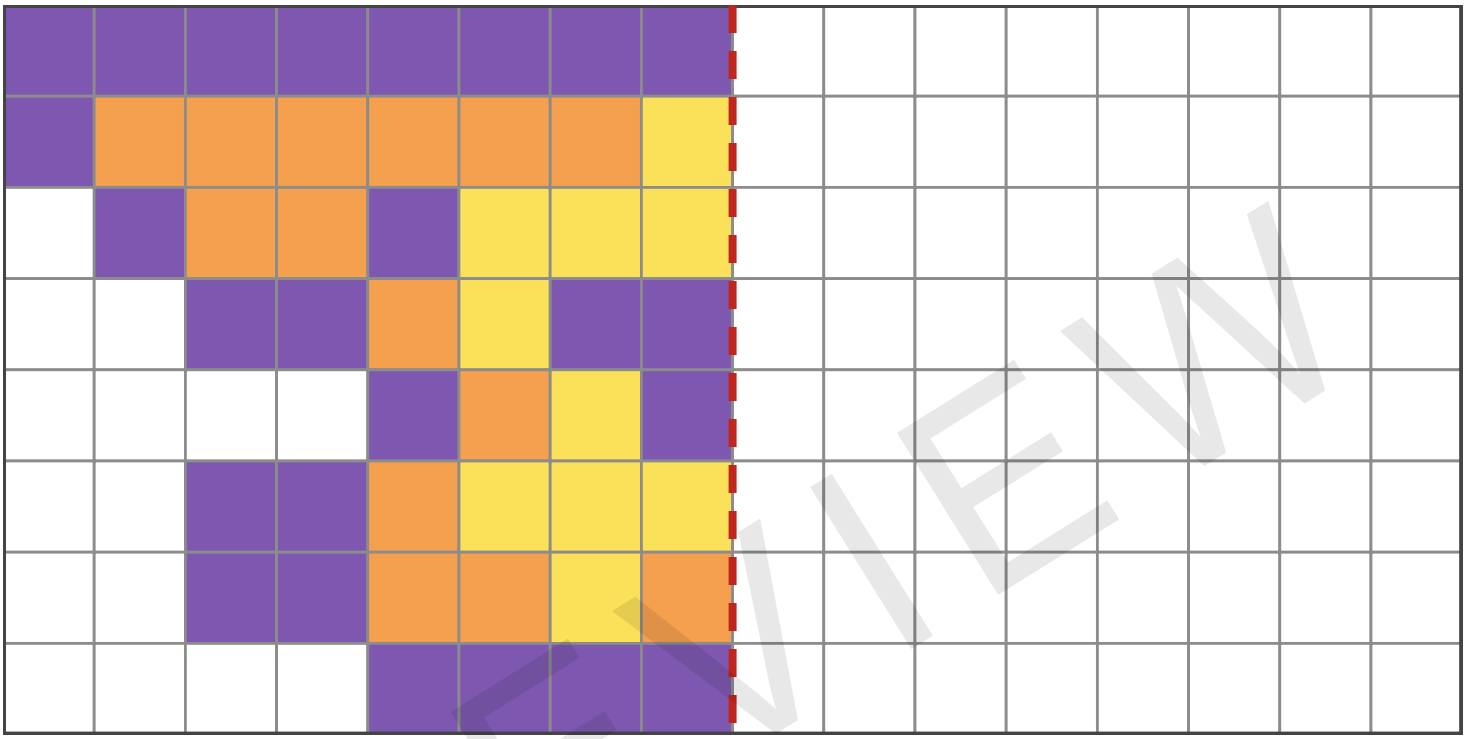
PREVIEW

# My name _____

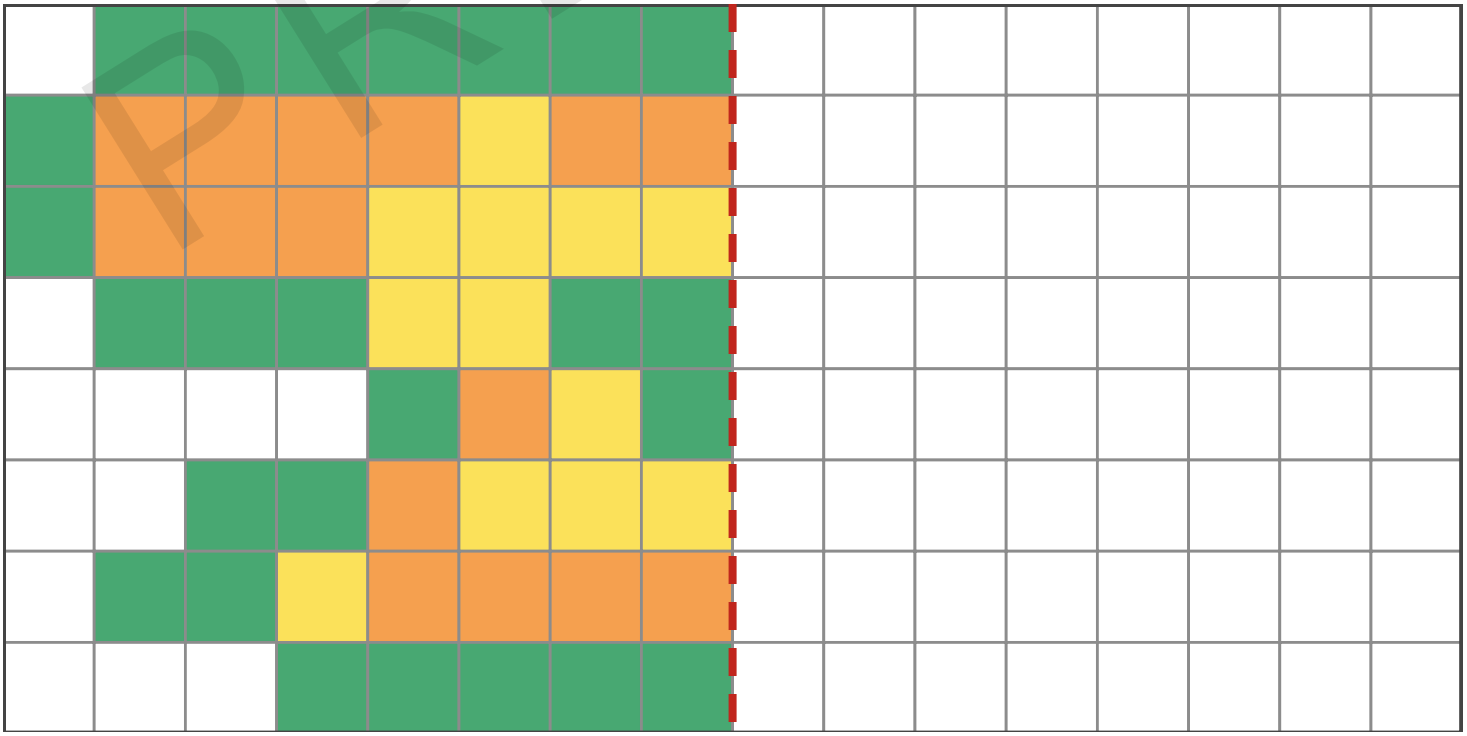


**Color the other side to match.**

**1**



**2**



PREVIEW

# My name _____



Color by number. Color the other side to match.

**1** 1 orange 2 purple 3 yellow

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1 | 1 | 1 | | | | | |
| 1 | 2 | 2 | 3 | 2 | | | | | |
| 1 | 1 | 2 | 3 | 3 | | | | | |
| | | 1 | 2 | 3 | | | | | |
| | 1 | 1 | 1 | 1 | | | | | |

**2** 1 orange 2 green 3 yellow

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | | | | | |
| 1 | 1 | 2 | 3 | 2 | | | | | |
| | | 1 | 3 | 3 | | | | | |
| | 1 | 2 | 2 | 2 | | | | | |
| | | 1 | 1 | 1 | | | | | |

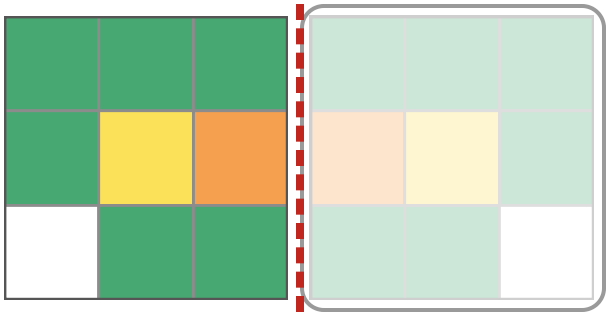
PREVIEW

# My name _____

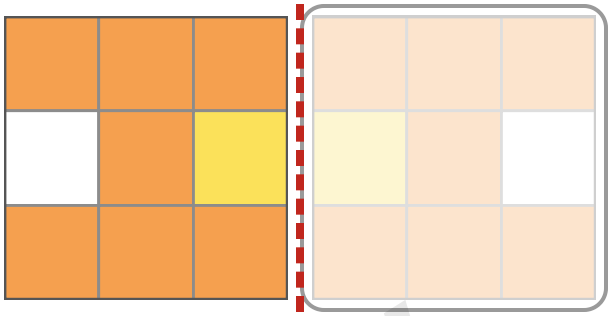


## Cut. Glue the matching side.

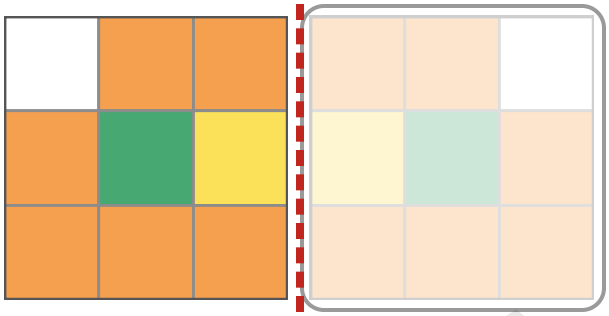
1



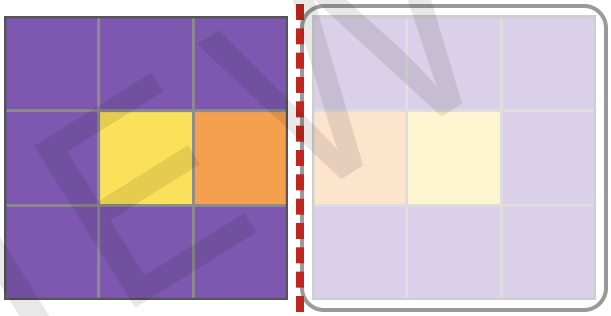
2



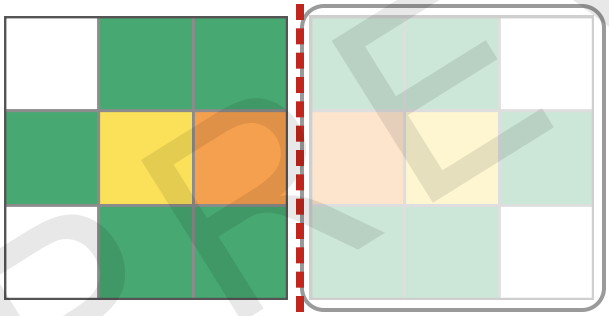
3



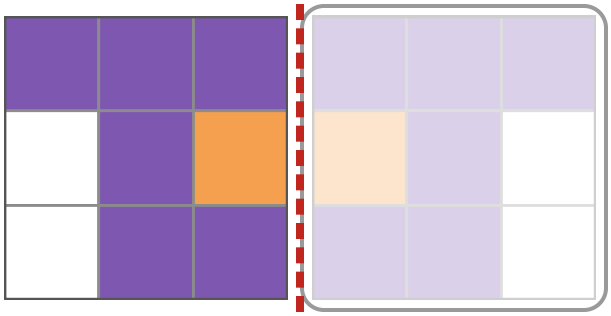
4

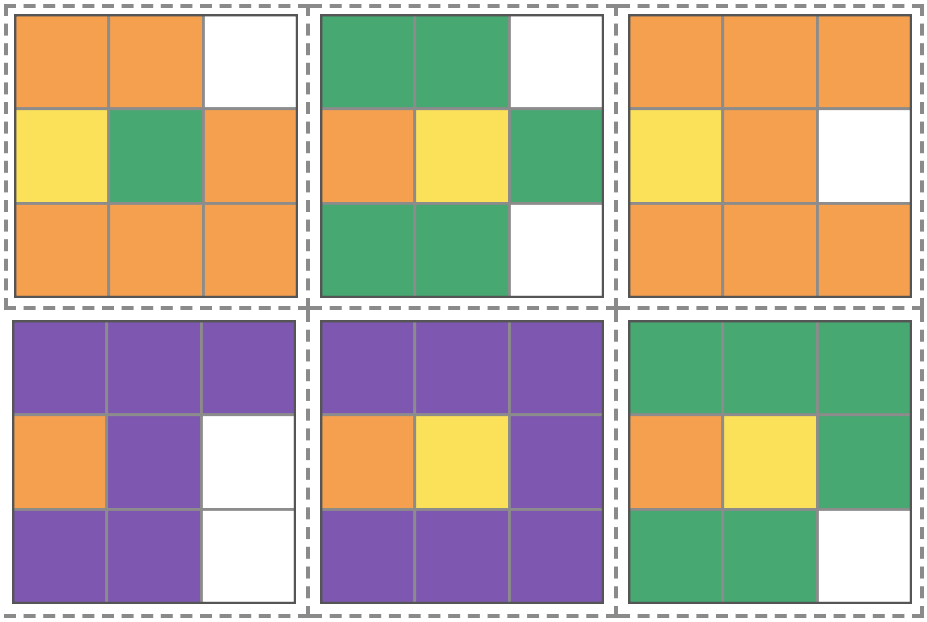


5



6





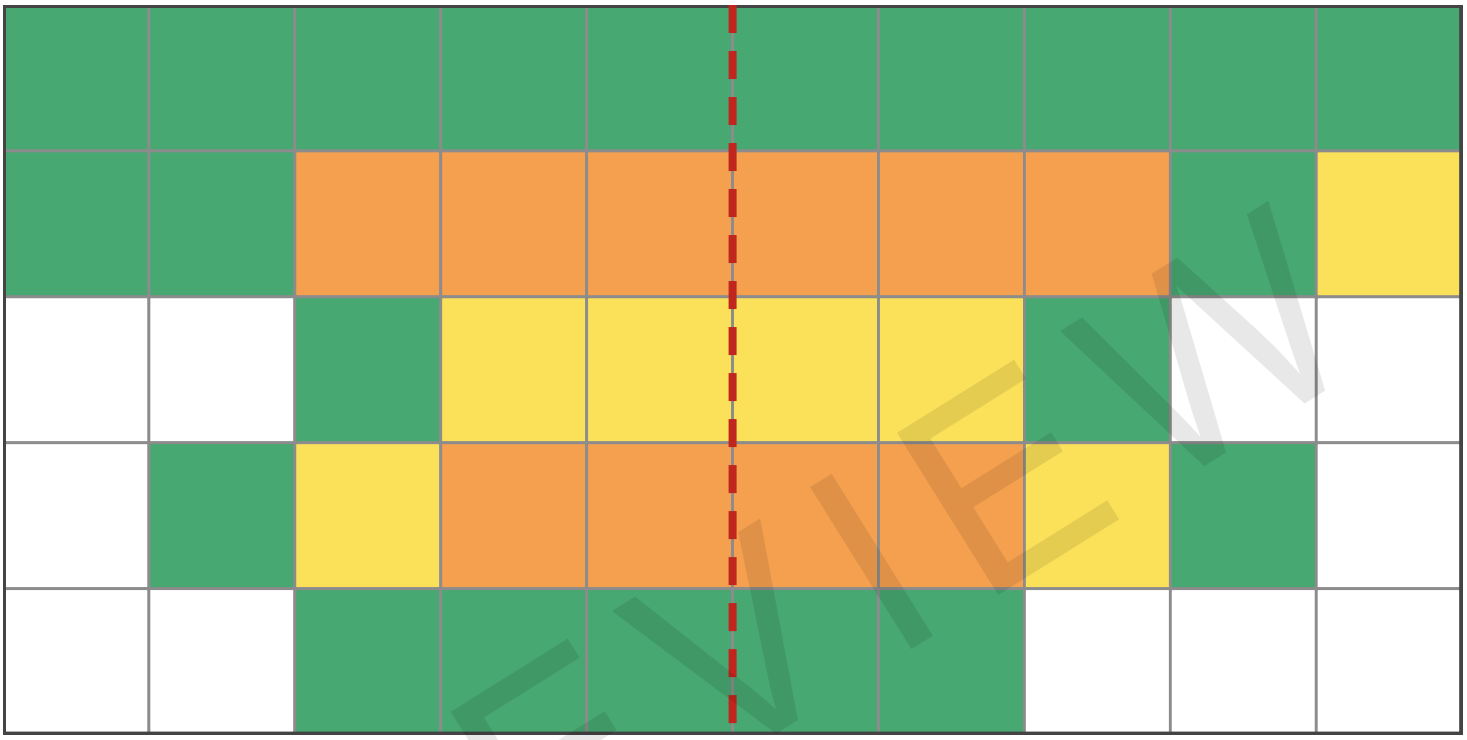
PREVIEW

# My name _____

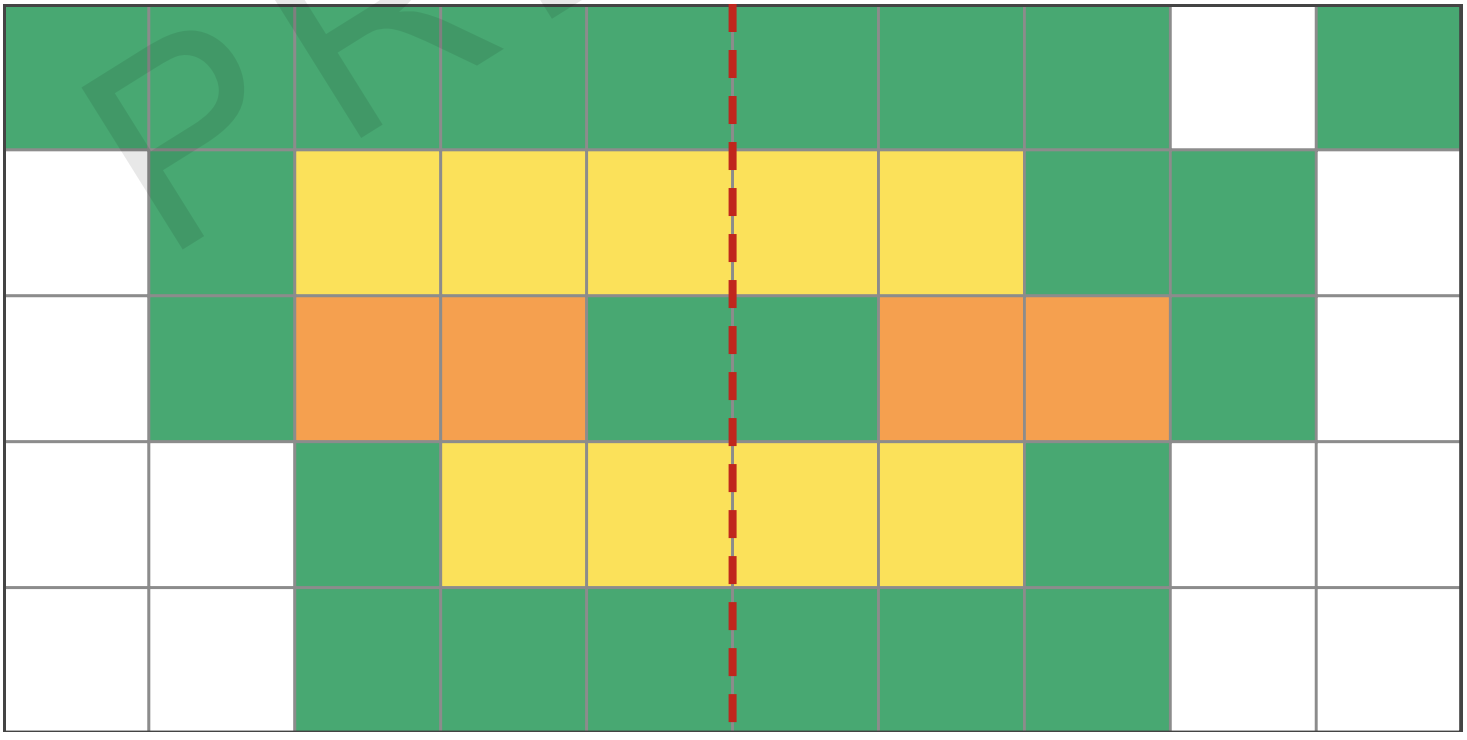


**Fold on the line. Fix the squares.**

**1**



**2**



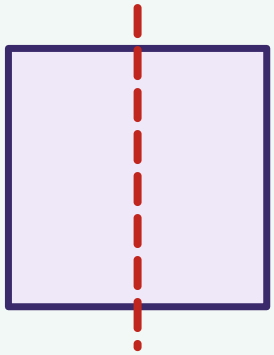
PREVIEW

# My name _____



**Do both sides match? Circle yes or no.**

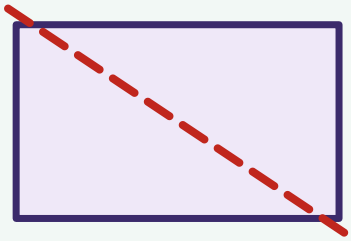
1



yes

no

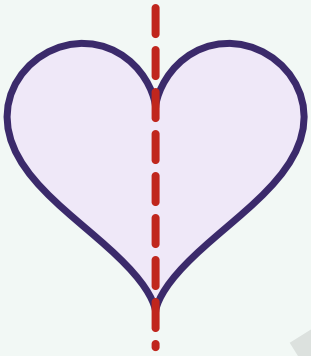
2



yes

no

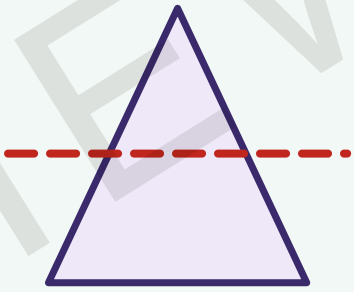
3



yes

no

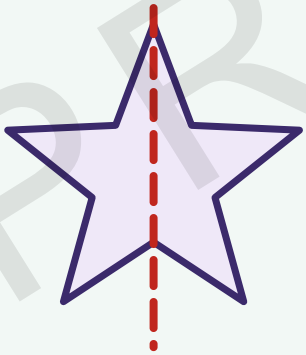
4



yes

no

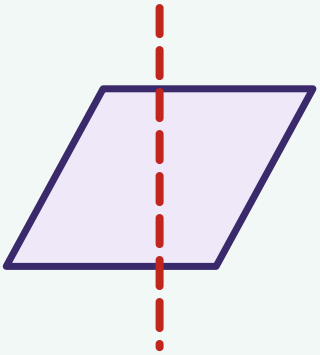
5



yes

no

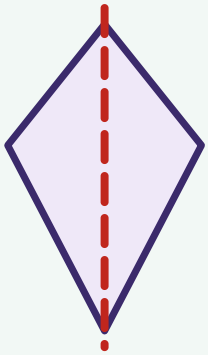
6



yes

no

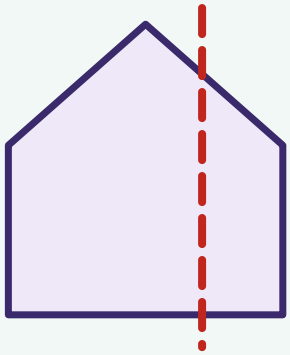
7



yes

no

8



yes

no

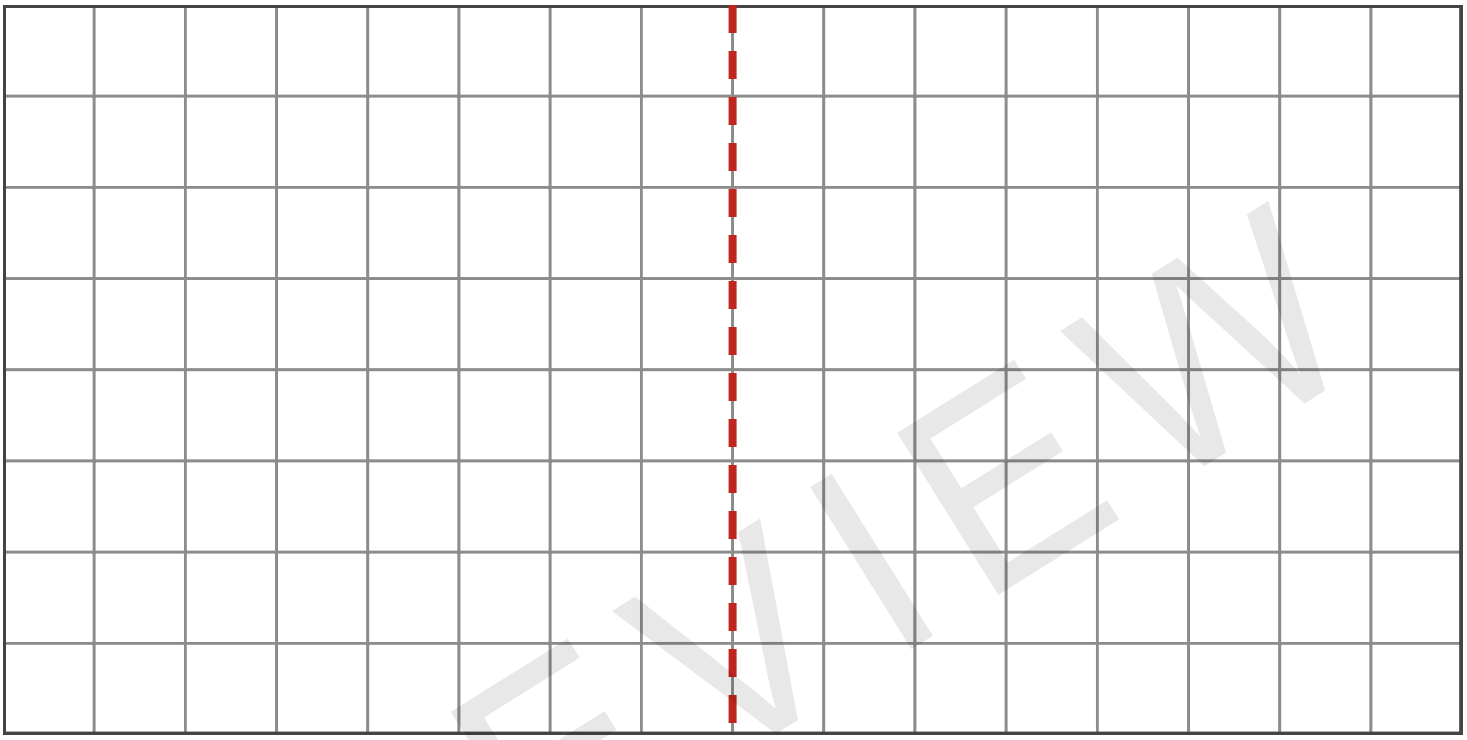
PREVIEW

# My name _____

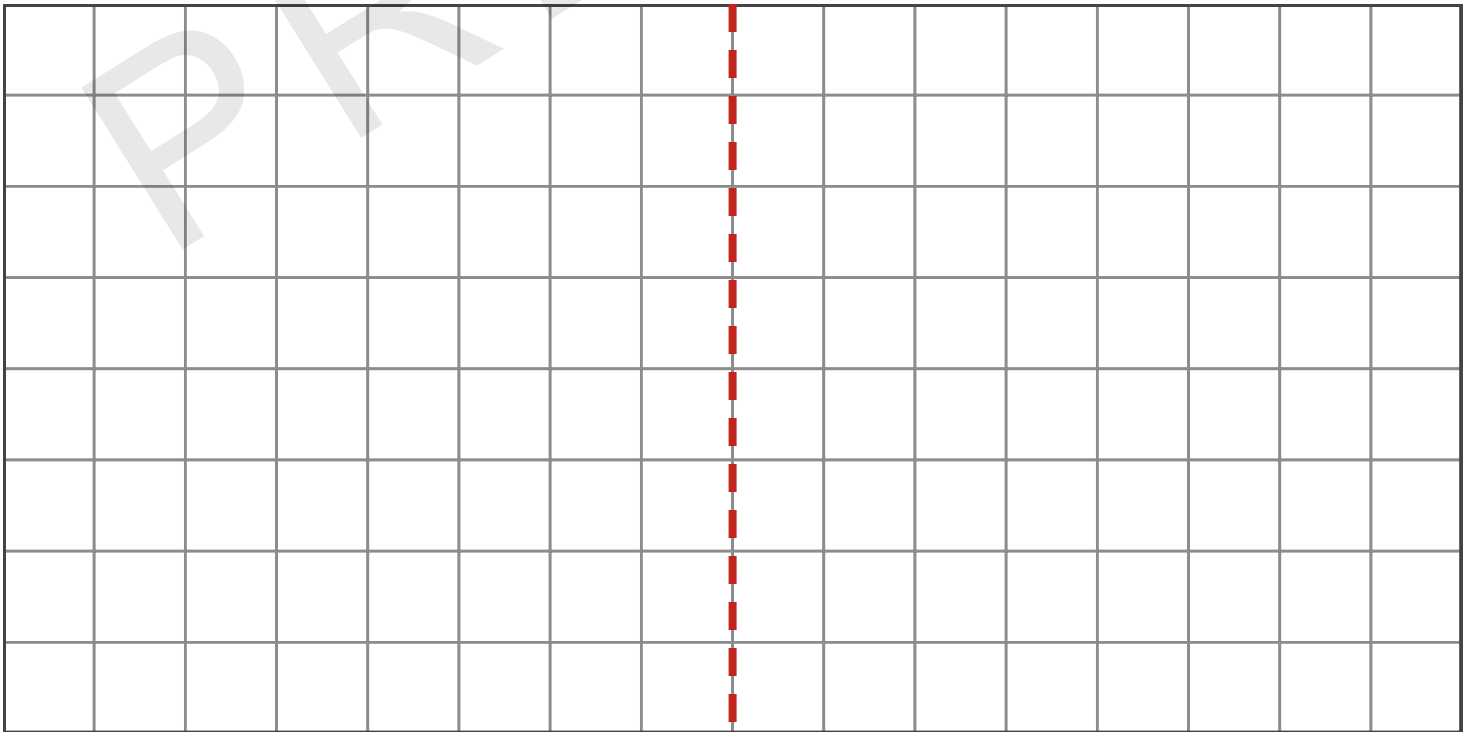


## Color one side. Color the other to match.

**1** Left squares ☐ Right squares ☐



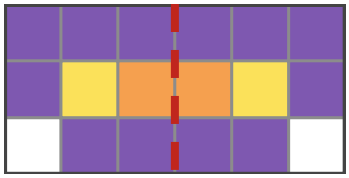
**2** Left squares ☐ Right squares ☐

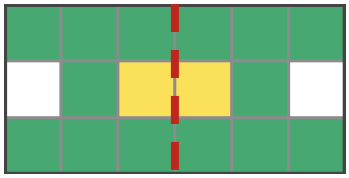


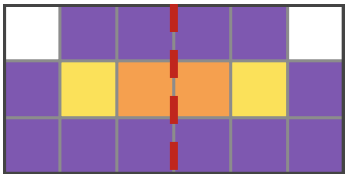
PREVIEW

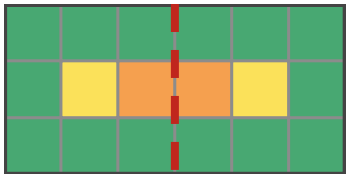
# Answer Key 1

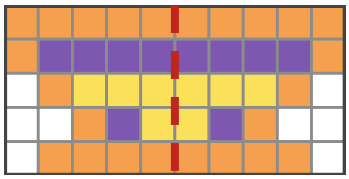
The draw-the-other-half pages 5 to 12, with the finished butterflies.

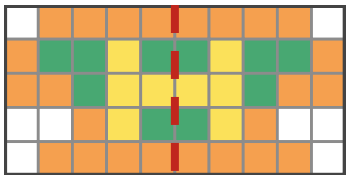

Page 5, #1: 8 squares

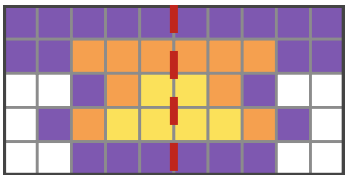

Page 5, #2: 8 squares

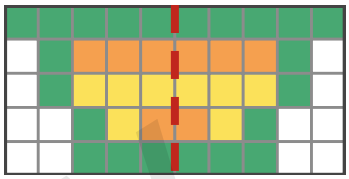

Page 6, #1: 8 squares

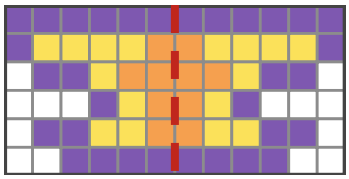

Page 6, #2: 9 squares

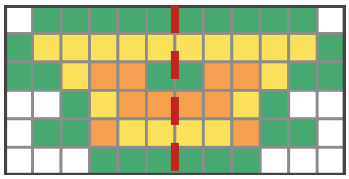

Page 7, #1: 21 squares

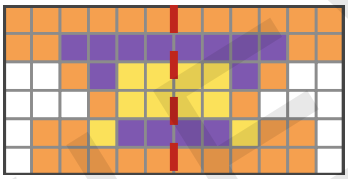

Page 7, #2: 21 squares

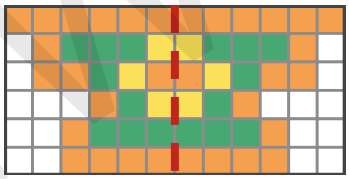

Page 8, #1: 20 squares

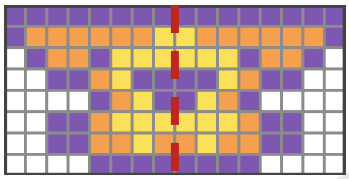

Page 8, #2: 19 squares

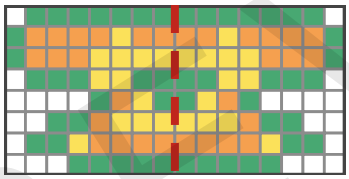

Page 9, #1: 29 squares

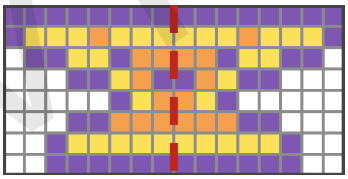

Page 9, #2: 29 squares

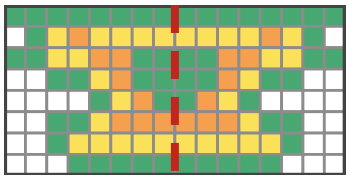

Page 10, #1: 29 squares


Page 10, #2: 27 squares


Page 11, #1: 49 squares


Page 11, #2: 52 squares


Page 12, #1: 48 squares


Page 12, #2: 50 squares

## How to check

- Every colored square on the left must have a square of the same color the same distance from the dashed line on the right. The number after each page is how many squares the finished wing has, so a quick count of the colored squares on one side tells you if a wing is complete.
- A fold check works for any of them: fold the page on the dashed line and the colors should land on the same colors.
- On the 3x3 pages the dots show every square to color. On every page the left wing is already printed.

## If a child gets stuck

- Counting from the outside edge instead of from the dashed line. Put a finger on the line and count out together.
- Matching the shape but not the colors, or the colors but not the places. Point to one square on the left and ask where its partner is.
- A butterfly that looks upside down on the right. Fold the page and see which squares land on each other.

PREVIEW

# Recording Sheet

Write the date and how many wings or answers were right. A blank row means not done yet, never wrong.

Student _____ Teacher _____ School year _____

Grid size we are on _____ Next step _____

| Page | Activity | Date | Right | Out of | Notes |
|---|---|---|---|---|---|
| 5 | Draw the Other Half 3x3 | | | 2 | |
| 6 | Draw the Other Half 3x3 | | | 2 | |
| 7 | Draw the Other Half 5x5 | | | 2 | |
| 8 | Draw the Other Half 5x5 | | | 2 | |
| 9 | Draw the Other Half 6x6 | | | 2 | |
| 10 | Draw the Other Half 6x6 | | | 2 | |
| 11 | Draw the Other Half 8x8 | | | 2 | |
| 12 | Draw the Other Half 8x8 | | | 2 | |
| 13 | Color by Number, Then Match | | | 2 | |
| 14 | Color by Number, Then Match 6x6 | | | 2 | |
| 15 | Cut and Glue the Matching Side | | | 6 | |
| 16 | Cut and Glue the Matching Side 4x4 | | | 6 | |
| 17 | Fold and Fix | | | 4 | |
| 18 | Fold and Fix 6x6 | | | 6 | |
| 19 | Do Both Sides Match? | | | 8 | |
| 20 | Draw the Line | | | 6 | |
| 21 | Make Your Own Butterfly | | | – | |
| 22 | Symmetry Words | | | – | |

Notes for the team or the next unit

PREVIEW

# Symmetry at Home

Send this page home with a child, or hand it to a family at a conference.

Student _____ Week of _____



## How to help at home, in three steps

- Fold a sheet of paper in half. Draw half a butterfly or half a heart with the fold as the middle. Cut it out and open it: both sides match.
- Look around the house for things with two matching sides. Say where the line would go.
- Ask your child to tell you how they know both sides match. Stop while it is still going well.

## Our symmetry hunt

I found _____

I found _____

I found _____

I found _____

## Try saying

- "Where is the line? Show me with your finger."
- "Count the squares from the line. Is it the same on the other side?"
- "What could we fold to check?"

Note from the teacher

Note from home

PREVIEW