

Fold Match Hunt

Look for a straight fold that makes matching halves.

2.GSR.7.2 "Identify at least one line of symmetry in everyday objects to describe each object as a whole."

NAME _____

DATE _____

FOLDS TO MATCH

It has a straight line where you could fold it and both halves would match. That fold is a line of symmetry.

A plain round coin.

DOES NOT FOLD TO MATCH

No straight fold would make both halves match. It does not have a line of symmetry.

A shirt with one pocket.

1 SORT _____ 8 items

Circle MATCHES or NO MATCH for each item, then pick two items and explain which straight fold would work or why no straight fold works.

1. a mug with a handle on one side

MATCHES

NO MATCH

2. a plain heart-shaped card

MATCHES

NO MATCH

3. a plain rectangular mirror

MATCHES

NO MATCH

4. a single mitten

MATCHES

NO MATCH

5. a spoon seen from above

MATCHES

NO MATCH

6. a key with teeth along one side

MATCHES

NO MATCH

7. a right-pointing arrow sign

MATCHES

NO MATCH

8. a plain oval serving tray

MATCHES

NO MATCH

2 PROVE IT Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ HOW I KNEW _____

ITEM # _____ HOW I KNEW _____

3 MAKE YOUR OWN One of each

Write one new thing that MATCHES and one new thing that is NO MATCH.

MATCHES _____

NO MATCH _____

CHALLENGE

Draw one object that MATCHES, then draw one line of symmetry on it.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	a mug with a handle on one side	NO MATCH	The handle on only one side keeps any fold from making matching halves.
2	a plain heart-shaped card	MATCHES	A vertical line down the middle makes matching left and right halves.
3	a plain rectangular mirror	MATCHES	A vertical or horizontal line through the center makes matching halves.
4	a single mitten	NO MATCH	The thumb sticks out on only one side.
5	a spoon seen from above	MATCHES	A line down the middle from the bowl to the handle makes matching halves.
6	a key with teeth along one side	NO MATCH	The teeth are only on one side.
7	a right-pointing arrow sign	MATCHES	A horizontal line through the center makes matching top and bottom halves.
8	a plain oval serving tray	MATCHES	A vertical or horizontal line through the center makes matching halves.

PART 2 • PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 • MAKE YOUR OWN (SAMPLE ANSWERS)

- **MATCHES:** a plain square napkin.
- **NO MATCH:** a backpack with one side pocket.

Challenge: A plain square napkin with a vertical line down its center.

For MATCHES items, accept any correct line of symmetry. For NO MATCH items, students should explain that a straight fold would leave parts that do not match.