Pair It Up

Use pairs to sort even and odd numbers.

2.NS.1.j "Determine whether a number (up to 50) is even or odd using concrete objects and justify reasoning (e.g., dividing collections of objects into two equal groups, pairing objects)."

NAME _____ DATE _____

EVEN

An even number can be put into pairs with nothing left over. It can make two equal groups.

18 shells make 9 pairs with no shells left over.

ODD

An odd number has one object left over after making pairs. It cannot make two equal groups.

21 leaves make 10 pairs with 1 leaf left over.

1 SORT

8 items

For each collection, circle EVEN or ODD, then choose two items and show how you paired the objects to prove your choices.

1. 14 buttons — EVEN ODD
2. 36 blocks — EVEN ODD
3. 27 beads — EVEN ODD
4. 8 apples — EVEN ODD
5. 15 toy cars — EVEN ODD
6. 41 stickers — EVEN ODD
7. 23 acorns — EVEN ODD
8. 50 paper clips — EVEN ODD

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 EVEN collection and one new ODD collection.

EVEN _____

ODD _____

CHALLENGE

Draw 25 dots. Circle pairs of dots, then write whether 25 is even or odd and tell what is left over.

ANSWER KEY

Pair It Up

GRADE 2 · 2.NS.1.j

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	14 buttons	**EVEN**	14 makes 7 pairs with none left over.
2	36 blocks	**EVEN**	36 makes 18 pairs with none left over.
3	27 beads	**ODD**	27 makes 13 pairs with 1 bead left over.
4	8 apples	**EVEN**	8 makes 4 pairs with none left over.
5	15 toy cars	**ODD**	15 makes 7 pairs with 1 toy car left over.
6	41 stickers	**ODD**	41 makes 20 pairs with 1 sticker left over.
7	23 acorns	**ODD**	23 makes 11 pairs with 1 acorn left over.
8	50 paper clips	**EVEN**	50 makes 25 pairs with none left over.

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)

- **EVEN**: 24 stars, EVEN
- **ODD**: 17 kites, ODD

Challenge: 25 makes 12 pairs with 1 dot left over. 25 is odd.

Accept any explanation that names the deciding feature from the rule box for the chosen item. For Part 2, accept drawings, pair marks, or statements that tell how many pairs were made and whether an object was left over. For Part 3, accept any correct number up to 50 that matches the named category.