Pair Them Up

Sort the groups, then pick two and explain how you know.

2.OA.C.3 "Use concrete objects to determine whether a group of up to 20 objects is even or odd. a. Write an equation to express an even number as a sum of two equal addends."

NAME _____ DATE _____

EVEN

Every object has a partner. None are left over. An even number can also be shown as two equal groups.

6 shells make two groups of 3. 6 = 3 + 3.

ODD

When you make pairs, one object is left without a partner.

With 5 pebbles, one pebble is left over.

1 SORT

8 items

Use small objects or draw dots to make each group, put them in pairs, and circle EVEN or ODD.

1. 4 buttons — EVEN ODD
2. 18 blocks — EVEN ODD
3. 13 pennies — EVEN ODD
4. 12 crayons — EVEN ODD
5. 9 stickers — EVEN ODD
6. 15 paper clips — EVEN ODD
7. 16 beads — EVEN ODD
8. 7 toy cars — 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 group of objects that is EVEN and one new group that is ODD.

EVEN _____

ODD _____

CHALLENGE

Choose one EVEN group from Part 1. Write an equation that shows its number as two equal addends.

ANSWER KEY

Pair Them Up

GRADE 2 · 2.OA.C.3

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	4 buttons	**EVEN**	The buttons make 2 pairs with none left over.
2	18 blocks	**EVEN**	The blocks make 9 pairs with none left over.
3	13 pennies	**ODD**	The pennies make 6 pairs with 1 left over.
4	12 crayons	**EVEN**	The crayons make 6 pairs with none left over.
5	9 stickers	**ODD**	The stickers make 4 pairs with 1 left over.
6	15 paper clips	**ODD**	The paper clips make 7 pairs with 1 left over.
7	16 beads	**EVEN**	The beads make 8 pairs with none left over.
8	7 toy cars	**ODD**	The toy cars make 3 pairs with 1 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**: 10 marbles, EVEN
- **ODD**: 11 pencils, ODD

Challenge: 18 = 9 + 9

For Part 2, accept explanations that name the two chosen groups and state whether pairing leaves an object over. For the challenge, the two addends must be equal and add to the chosen group's number.