Even or Odd?

Sort whole numbers by what happens when you make pairs.

MA.3.AR.3.1 "Determine and explain whether a whole number from 1 to 1,000 is even or odd."

NAME _____ DATE _____

EVEN NUMBERS

An even number can be split into two equal groups with none left over. Its ones digit is 0, 2, 4, 6, or 8.

312

ODD NUMBERS

An odd number has one left over after making two equal groups. Its ones digit is 1, 3, 5, 7, or 9.

475

1 SORT

8 items

In Part 1, circle EVEN or ODD for each number, then in Part 2, choose two items and explain how you knew.

1. 246 EVEN ODD

2. 58 EVEN ODD

3. 719 EVEN ODD

4. 1,000 EVEN ODD

5. 93 EVEN ODD

6. 407 EVEN ODD

7. 624 EVEN ODD

8. 86 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

Part 3: Write one new even number and one new odd number from 1 to 1,000.

EVEN _____

ODD _____

CHALLENGE

Write three consecutive whole numbers from 1 to 1,000 with an even number in the middle. Explain how you know the middle number is even.

ANSWER KEY

Even or Odd?

GRADE 3 · MA.3.AR.3.1

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	246	**EVEN**	The ones digit is 6, so it is even.
2	58	**EVEN**	The ones digit is 8, so it is even.
3	719	**ODD**	The ones digit is 9, so it is odd.
4	1,000	**EVEN**	The ones digit is 0, so it is even.
5	93	**ODD**	The ones digit is 3, so it is odd.
6	407	**ODD**	The ones digit is 7, so it is odd.
7	624	**EVEN**	The ones digit is 4, so it is even.
8	86	**EVEN**	The ones digit is 6, so it is even.

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**: 154
- **ODD**: 681

Challenge: 457, 458, 459. The middle number, 458, ends in 8, so it is even.

For Part 2, accept explanations based on making equal pairs with none left over for even numbers or one left over for odd numbers. Students may also correctly use the ones-digit rule.