

Last Digit Detectives

Find even and odd numbers by looking at the ones digit.

3.4.I "determine if a number is even or odd using divisibility rules;"

NAME _____

DATE _____

EVEN NUMBERS

An even number ends in 0, 2, 4, 6, or 8. It can be divided into two equal groups with none left over.

154 is even because it ends in 4.

ODD NUMBERS

An odd number ends in 1, 3, 5, 7, or 9. It cannot be divided into two equal groups without one left over.

237 is odd because it ends in 7.

1 SORT

8 items

For each number, circle EVEN or ODD by checking its ones digit.

1. 14

EVEN

ODD

2. 62

EVEN

ODD

3. 35

EVEN

ODD

4. 48

EVEN

ODD

5. 71

EVEN

ODD

6. 93

EVEN

ODD

7. 26

EVEN

ODD

8. 80

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 number and one new ODD number.

EVEN _____

ODD _____

CHALLENGE

Use the digits 3, 4, and 8 one time each to write one even three-digit number and one odd three-digit number.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	14	EVEN	It ends in 4.
2	62	EVEN	It ends in 2.
3	35	ODD	It ends in 5.
4	48	EVEN	It ends in 8.
5	71	ODD	It ends in 1.
6	93	ODD	It ends in 3.
7	26	EVEN	It ends in 6.
8	80	EVEN	It ends in 0.

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:** 58
- **ODD:** 91

Challenge: Even: 834. Odd: 843.

Accept any explanation that names the deciding feature from the rule box for the chosen item. For PROVE IT, accept any two correctly sorted items if the student uses the ones digit rule correctly. For the challenge, many answers are possible, as long as each number uses 3, 4, and 8 once and has the correct last digit.