

# Pair It Up

Find odd and even groups.

**GRADE 2 • 2.NR.3.1**

**2.NR.3.1** "Determine whether a group (up to 20) has an odd or even number of objects. Write an equation to express an even number as a sum of two equal addends."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## MAKE EQUAL PAIRS

A number is even when you can make two equal groups with none left over. A number is odd when one object is left over after making two equal groups. For an even number, write an addition equation with the same addend twice.

## WORKED EXAMPLE

Lena has 14 stickers. Is 14 odd or even? Write an equation.

1. Split 14 stickers into 2 equal groups.
2. Each group has 7 stickers.
3. Write  $7 + 7 = 14$ .

**Answer: 14 is even.  $7 + 7 = 14$ .**

## PRACTICE 5 problems

- 1** A toy box has 9 toy cars. Is 9 odd or even?

ANSWER \_\_\_\_\_

- 2** Sam has 12 crackers. Is 12 odd or even? Write an equation with two equal addends.

ANSWER \_\_\_\_\_

- 3** There are 8 fish in a tank. Is 8 odd or even? Write an equation with two equal addends.

ANSWER \_\_\_\_\_

- 4** A jar holds 15 buttons. Is 15 odd or even?

ANSWER \_\_\_\_\_

- 5** Kai has 20 building blocks. Is 20 odd or even? Write an equation with two equal addends.

ANSWER \_\_\_\_\_

## APPLY IT Show your work

- 1** At recess, 16 students want to play a game. They make 2 equal teams. Is 16 odd or even? Write an equation to show the teams.

WORK SPACE

ANSWER \_\_\_\_\_

- 2** Zoe has 13 gummy bears. She tries to share them between 2 friends equally. Is 13 odd or even?

WORK SPACE

ANSWER \_\_\_\_\_

## CHALLENGE One step up

### CHALLENGE

Noah says 18 is even because it can be split into 2 equal groups of 9. Is Noah correct? Explain and write an equation.

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## PART 1 • PRACTICE

| # | PROBLEM                                                                                  | ANSWER                                        |
|---|------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1 | A toy box has 9 toy cars. Is 9 odd or even?                                              | <b>9 is odd.</b>                              |
| 2 | Sam has 12 crackers. Is 12 odd or even? Write an equation with two equal addends.        | <b>12 is even. <math>6 + 6 = 12</math>.</b>   |
| 3 | There are 8 fish in a tank. Is 8 odd or even? Write an equation with two equal addends.  | <b>8 is even. <math>4 + 4 = 8</math>.</b>     |
| 4 | A jar holds 15 buttons. Is 15 odd or even?                                               | <b>15 is odd.</b>                             |
| 5 | Kai has 20 building blocks. Is 20 odd or even? Write an equation with two equal addends. | <b>20 is even. <math>10 + 10 = 20</math>.</b> |

## PART 2 • APPLY IT

- 16 is even.  $8 + 8 = 16$ .** Split 16 students into 2 equal teams. Each team has 8 students.
- 13 is odd.** Two equal groups of 6 use 12 gummy bears. One gummy bear is left over.

## CHALLENGE

**Yes. 18 can be split into 2 equal groups of 9, so it is even.  $9 + 9 = 18$ .**

Accept equivalent equal-addend equations for even numbers when both addends are the same and total is correct. For explanation responses, accept language showing two equal groups with no objects left over.