

Pair It Up

Find odd and even numbers by making pairs.

GRADE 2 • 2.OA.C.3

CCSS.Math.Content.2.OA.C.3 "Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends."

NAME _____

DATE _____

PAIRS TELL YOU

Pair objects. If every object has a partner, the number is even. An even number can be written as a sum of two equal addends.

WORKED EXAMPLE

There are 12 shells in a bucket.
Is 12 odd or even? Write an equation.

1. Make pairs of shells.
2. All 12 shells have a partner.
3. Put the shells into two equal groups of 6.

Answer: Even. $6 + 6 = 12$.

PRACTICE 5 problems

- 1** There are 8 toy cars. Is the number odd or even? Write an equation.

ANSWER _____

- 2** There are 11 grapes on a plate. Is the number odd or even?

ANSWER _____

- 3** There are 14 crayons in a box. Is the number odd or even? Write an equation.

ANSWER _____

- 4** There are 18 buttons on a craft table. Is the number odd or even? Write an equation.

ANSWER _____

- 5** There are 13 fish cards. Is the number odd or even?

ANSWER _____

APPLY IT Show your work

- 1** Ava has 10 cookies. She shares them equally with one friend. Is 10 odd or even? Write an equation.

WORK SPACE

ANSWER _____

- 2** Leo sees 15 soccer balls in the gym. He puts the balls into pairs. Is 15 odd or even?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Mia has 20 stickers. She says 20 is odd because she can make 10 pairs. Is Mia correct? Explain and write an equation.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	There are 8 toy cars. Is the number odd or even? Write an equation.	Even. $4 + 4 = 8$.
2	There are 11 grapes on a plate. Is the number odd or even?	Odd.
3	There are 14 crayons in a box. Is the number odd or even? Write an equation.	Even. $7 + 7 = 14$.
4	There are 18 buttons on a craft table. Is the number odd or even? Write an equation.	Even. $9 + 9 = 18$.
5	There are 13 fish cards. Is the number odd or even?	Odd.

PART 2 • APPLY IT

1. **Even. $5 + 5 = 10$.** Split 10 cookies into two equal groups. Each group has 5 cookies.
2. **Odd.** When 15 balls are paired, 1 ball has no partner. A number with one left over is odd.

CHALLENGE

No. 20 is even because every sticker has a partner. $10 + 10 = 20$.

Accept equal-addend equations in either order. For odd numbers, accept an explanation that one object is left without a partner.