MATHEMATICS · KINDERGARTEN TO GRADE 3

Odd and even numbers

Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how you pair things up fairly, like splitting players into two teams or sharing snacks so nobody is left with an odd one out. A teacher pairs students up for an activity, and a coach knows at a glance whether everyone has a partner. You use the same check when you set a table for couples, deal cards evenly, or sort socks into pairs. Knowing whether a number is odd or even tells you right away whether it splits cleanly in two.



Rule

A number is even if it can be split into two equal groups with nothing left over.

A number is odd if one is left over when you split it into two equal groups. Zero is even, because there is nothing left over.

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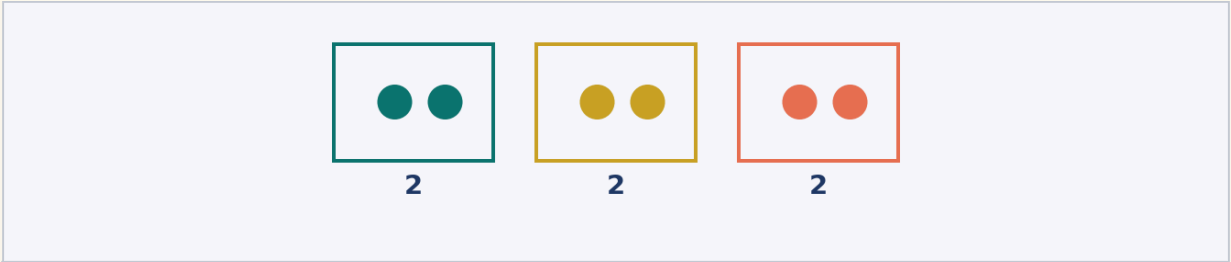
Worked examples

EXAMPLE 1

Q Is 6 odd or even?



SOLUTION

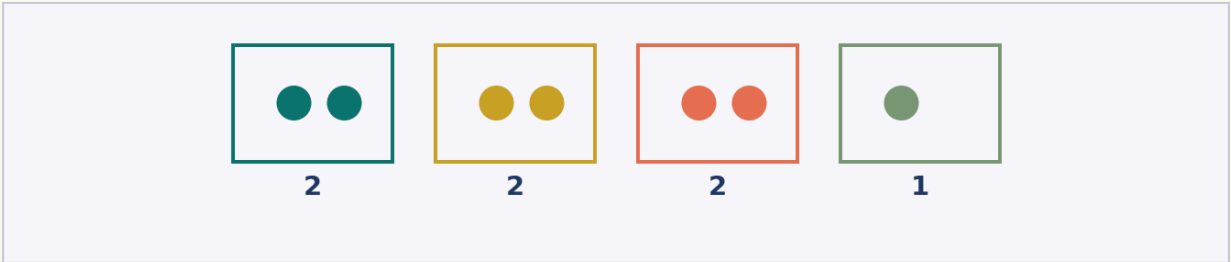
Try to pair the dots: pair, pair, pair.

Every dot has a partner, with none left over.

So 6 is even.

EXAMPLE 2

Q Is 7 odd or even?



SOLUTION

Try to pair the dots: pair, pair, pair, and one left over.

One dot has no partner.

So 7 is odd.

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Practice questions

1 4 apples are on a table. Can you put them into pairs with none left over? Is 4 odd or even?

- A even
- B odd

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2 5 children stand in pairs for a game. One child is left without a partner. Is 5 odd or even?

- A even
- B odd

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3 What is the next even number after 10?

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4 **Is the sum 7 + 5 odd or even?**

A even

B odd

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5 **There are 0 dots on the table. Can you put them into pairs with none left over? Is 0 odd or even?**

A even

B odd

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6 Two even numbers are added: 6 + 8. Is the sum odd or even?

- **A** Even, because 6 + 8 = 14
- **B** Odd, because 6 + 8 = 14
- **C** Even, because 6 + 8 = 15
- **D** Odd, because 6 + 8 = 15

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7 Which number is even: 13, 16, 19, or 21? Write the even number.

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8 Why is 0 even and not odd?

- **A** 0 splits into pairs with nothing left over, and $\frac{0}{2}$ is 0 with no remainder
- **B** 0 cannot be split into pairs at all
- **C** 0 is odd because it has no value
- **D** 0 splits into pairs with 1 left over

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9 The numbers of apples picked each day are: Monday 12, Tuesday 15, Wednesday 18, Thursday 21. On which days was the number of apples even?

- **A** Monday and Wednesday
- **B** Tuesday and Thursday
- **C** Monday and Tuesday
- **D** Wednesday and Thursday

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10 **Which one is different: 6, 10, 14, 15?**

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ANSWER KEY

1. even

2. odd

3. 12

4. even

5. even

6. Even, because 6 + 8 = 14

7. 16

8. 0 splits into pairs with nothing left over, and $\frac{0}{2}$ is 0 with no remainder

9. Monday and Wednesday

10. 15

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