

# Odd and Even Numbers

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Q Quick Review

A number is **even** when you can split it into two equal groups with nothing left over. A number is **odd** when you try to make two equal groups and **one is left over**. Here is an easy trick: look at the **ones digit** — the very last digit. If it ends in 0, 2, 4, 6, or 8, the number is even. If it ends in 1, 3, 5, 7, or 9, the number is odd. You can also pair up objects two-by-two: if every object has a partner, it is even.

◇ **Example:** Is 14 even or odd?

⇒ Let's pair up 14 objects two at a time. We can make 7 pairs, and nobody is left without a partner. We can also check the **ones digit**: 14 ends in 4, and 4 is one of the even endings (0, 2, 4, 6, 8). Both ways agree, so 14 is even.

**Answer:** even

## PRACTICE

Tell whether each number is even or odd.

- |                       |       |                        |       |
|-----------------------|-------|------------------------|-------|
| 1. Is 8 even or odd?  | _____ | 11. Is 4 even or odd?  | _____ |
| 2. Is 5 even or odd?  | _____ | 12. Is 17 even or odd? | _____ |
| 3. Is 10 even or odd? | _____ | 13. Is 18 even or odd? | _____ |
| 4. Is 13 even or odd? | _____ | 14. Is 11 even or odd? | _____ |
| 5. Is 16 even or odd? | _____ | 15. Is 6 even or odd?  | _____ |
| 6. Is 7 even or odd?  | _____ | 16. Is 15 even or odd? | _____ |
| 7. Is 20 even or odd? | _____ | 17. Is 2 even or odd?  | _____ |
| 8. Is 19 even or odd? | _____ | 18. Is 3 even or odd?  | _____ |
| 9. Is 12 even or odd? | _____ | 19. Is 24 even or odd? | _____ |
| 10. Is 9 even or odd? | _____ | 20. Is 21 even or odd? | _____ |

## ◆ Word Problems

21. Maria has 12 stickers. She wants to share them equally with her sister so each gets the same number. Can she do it with none left over? \_\_\_\_\_
22. Sam has 9 crackers and wants to split them evenly between two plates. Will there be a cracker left over? \_\_\_\_\_
23. There are 16 socks in the laundry. If every sock has a partner to make a pair, is 16 even or odd? \_\_\_\_\_
24. A team has 11 players. The coach tries to put them into two equal lines. Is 11 even or odd? \_\_\_\_\_



## Answer Keys

- |                                       |  |
|---------------------------------------|--|
| 1. <input type="text" value="even"/>  | 13. <input type="text" value="even"/>            |
| 2. <input type="text" value="odd"/>   | 14. <input type="text" value="odd"/>             |
| 3. <input type="text" value="even"/>  | 15. <input type="text" value="even"/>            |
| 4. <input type="text" value="odd"/>   | 16. <input type="text" value="odd"/>             |
| 5. <input type="text" value="even"/>  | 17. <input type="text" value="even"/>            |
| 6. <input type="text" value="odd"/>   | 18. <input type="text" value="odd"/>             |
| 7. <input type="text" value="even"/>  | 19. <input type="text" value="even"/>            |
| 8. <input type="text" value="odd"/>   | 20. <input type="text" value="odd"/>             |
| 9. <input type="text" value="even"/>  | 21. <input type="text" value="Yes; 12 is even"/> |
| 10. <input type="text" value="odd"/>  | 22. <input type="text" value="Yes; 9 is odd"/>   |
| 11. <input type="text" value="even"/> | 23. <input type="text" value="even"/>            |
| 12. <input type="text" value="odd"/>  | 24. <input type="text" value="odd"/>             |

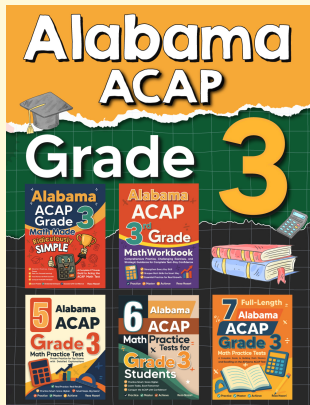
### Step-by-Step Explanations

- |  |   |
|--|---|
| 1. 8 ends in 8, an even ending, so 8 is even.    | 15. 6 ends in 6, an even ending, so 6 is even.  |
| 2. 5 ends in 5, an odd ending, so 5 is odd.      | 16. 15 ends in 5, an odd ending, so 15 is odd.  |
| 3. 10 ends in 0, an even ending, so 10 is even.  | 17. 2 ends in 2, an even ending, so 2 is even.  |
| 4. 13 ends in 3, an odd ending, so 13 is odd.    | 18. 3 ends in 3, an odd ending, so 3 is odd.  |
| 5. 16 ends in 6, an even ending, so 16 is even.  | 19. 24 ends in 4, an even ending, so 24 is even.  |
| 6. 7 ends in 7, an odd ending, so 7 is odd.      | 20. 21 ends in 1, an odd ending, so 21 is odd.  |
| 7. 20 ends in 0, an even ending, so 20 is even.  | 21. 12 is even, so it splits into two equal groups of 6 with nothing left over. Each girl gets 6 stickers.        |
| 8. 19 ends in 9, an odd ending, so 19 is odd.    | 22. 9 is odd, so it cannot be split into two equal groups. He gets 4 on each plate with 1 cracker left over.      |
| 9. 12 ends in 2, an even ending, so 12 is even.  | 23. Every sock pairs up with no sock left alone, which means 16 is even. It makes exactly 8 pairs.                |
| 10. 9 ends in 9, an odd ending, so 9 is odd.     | 24. 11 cannot be split into two equal lines, so 11 is odd. There would be 5 in each line with 1 player left over. |
| 11. 4 ends in 4, an even ending, so 4 is even.   |   |
| 12. 17 ends in 7, an odd ending, so 17 is odd.   |   |
| 13. 18 ends in 8, an even ending, so 18 is even. |   |
| 14. 11 ends in 1, an odd ending, so 11 is odd.   |   |



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