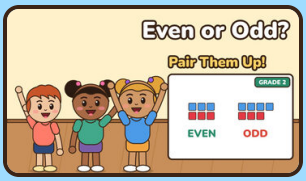
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 2 · LESSON 3

Even and Odd



VIRGINIA SOL (2023)
2.NS.1

VIDEO LENGTH
4:00 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-2#G2-03

PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

2.NS.1 The student will utilize flexible counting strategies to determine and describe quantities up to 200.

Materials: Snap cubes, counters, a hundreds chart.

Students will

- Pair objects to tell if a group is even or odd.
- Know even numbers end in 0, 2, 4, 6 or 8.
- Use the ones digit to tell if a large number is even or odd.
- Skip count by twos to name even numbers.

Key words

even	every object has a partner; ends in 0, 2, 4, 6 or 8
odd	one is left over; ends in 1, 3, 5, 7 or 9
pair	a group of two
ones digit	the last digit of a number

Before the video 2 minutes

Give each pair a handful of cubes. Ask: “Can you share them so you each get the same number with none left over?”

What happens in the video

0:00	Welcome and today's goal: even and odd
0:20	Six cubes in pairs: even
0:34	Seven cubes: one left over, odd
0:49	Even numbers end in 0, 2, 4, 6 or 8
1:13	Big numbers: look at the ones digit (346 is even)
1:29	Spot the mistake: only the ones digit tells (23 is odd)
1:51	Your turn! Students answer during each pause (see below)
3:42	Recap and goodbye

Spot the mistake at 1:29

> **Sam:** Twenty-three has a two in it. Two is even, so twenty-three is even!
> **Ivy:** Hmm... which digit do we look at?
> **Mia:** Only the ones digit tells! The ones digit in twenty-three is three. Three is odd!
> **Sam:** Oops! Twenty-three is odd. Look at the ones!

- Ask: “Which digit tells if a number is even or odd?” (The ones digit.)
- Make 23 cubes into pairs: one is left over.
- Look at 32: the ones digit is 2, so it is even.

Your-turn pauses students answer out loud, then the characters give the answer

TIME	QUESTION	ANSWER IN THE VIDEO
1:52	Eight cubes. Even, or odd?	Even! Every cube has a partner.
2:05	Five cubes. Even, or odd?	Odd! One is left over.
2:17	Is fourteen even, or odd?	Even! Four is even.
2:29	Is thirty-seven even, or odd?	Odd! Seven is odd.
2:41	Is one hundred twenty even, or odd?	Even! Zero is even.
2:54	Is five hundred nine even, or odd?	Odd! Nine is odd.
3:07	Nine cubes. Even, or odd?	Odd! One is left over.
3:19	Is two hundred fifty-two even, or odd?	Even! Two is even.
3:31	What even number comes after sixteen?	Eighteen!

Tip: pause the video a little longer on any question your class finds hard, and ask a student to explain how they know.

After the video: talk about it

1. Why does only the ones digit matter?
2. Is 0 even or odd? How do you know?
3. What happens when you add two even numbers? Try a few.

Go further

Even or odd hunt: students color the even numbers on a hundreds chart and describe the pattern they see.

Answer key for the practice page

1. Even
2. Odd
3. Even
4. Odd
5. 28
6. Odd: 5 pairs and 1 left over.

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HAKILLO KIDS · GRADE 2 · LESSON 3 · PRACTICE

Even and Odd

Name: _____ **Date:** _____

1. **10 cubes. Even or odd?**

   Answer: _____

2. **Is 17 even or odd?**

   Answer: _____

3. **Is 48 even or odd?**

   Answer: _____

4. **Is 365 even or odd?**

   Answer: _____

5. **What even number comes after 26?**

   Answer: _____

6. **Draw 11 dots in pairs. Is 11 even or odd?**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-2#G2-03
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**