

Luna's Space Adventure

Grade 3 · Odd and even: big numbers · 3.4I

Name _____

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Odd or even? Only the ones digit decides: 0, 2, 4, 6, 8 are even.

3,012 is	odd	even	4,581 is	odd	even
4,510 is	odd	even	9,216 is	odd	even
2,202 is	odd	even	220 is	odd	even
549 is	odd	even	9,388 is	odd	even
3,249 is	odd	even	4,386 is	odd	even
3,893 is	odd	even	7,804 is	odd	even

Split it in half Even numbers split into two equal whole parts.

$$932 = \boxed{} + \boxed{}$$

$$456 = \boxed{} + \boxed{}$$

$$788 = \boxed{} + \boxed{}$$

$$466 = \boxed{} + \boxed{}$$

Count by twos Every other number: the ones digit tells you what comes next.

534, 536, 538, $\boxed{}$, $\boxed{}$, 544

728, 730, $\boxed{}$, $\boxed{}$, 736, 738

706, 708, 710, $\boxed{}$, $\boxed{}$, 716



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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Odd or even? Only the ones digit decides: 0, 2, 4, 6, 8 are even.

3,012 is

odd

even

4,581 is

odd

even

4,510 is

odd

even

9,216 is

odd

even

2,202 is

odd

even

220 is

odd

even

549 is

odd

even

9,388 is

odd

even

3,249 is

odd

even

4,386 is

odd

even

3,893 is

odd

even

7,804 is

odd

even

Split it in half Even numbers split into two equal whole parts.

$$932 = 466 + 466$$

$$456 = 228 + 228$$

$$788 = 394 + 394$$

$$466 = 233 + 233$$

Count by twos Every other number: the ones digit tells you what comes next.

534, 536, 538, 540, 542, 544

728, 730, 732, 734, 736, 738

706, 708, 710, 712, 714, 716



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GUIDE

1 What this sheet practises

Telling whether any whole number is odd or even from its ones digit, and seeing that an even number splits into two equal whole parts.

2 A problem from the sheet, worked out

Odd or even? Only the ones digit decides: 0, 2, 4, 6, 8 are even.

3,012 is	odd	even	4,581 is	odd	even
4,510 is	odd	even	9,216 is	odd	even
2,202 is	odd	even	220 is	odd	even
549 is	odd	even	9,388 is	odd	even
3,249 is	odd	even	4,386 is	odd	even

How: Look only at the ones digit: 0, 2, 4, 6 or 8 means even, anything else is odd. The other digits don't matter.

3 Words to know

even ends in 0, 2, 4, 6 or 8

odd ends in 1, 3, 5, 7 or 9

ones digit the digit on the far right

half one of two equal parts

4 Watch for

- Looking at the first digit instead of the last.
- Calling 1,000 odd because it has a 1.
- Halving 468 as $234 + 234$.

5 Where it fits

BEFORE

2.OA.C.3

Tell whether a group of up to 20 objects is odd or even.

THIS SHEET

3.4I

Use divisibility rules to tell whether a number is even or odd.

NEXT

4.OA.B.4

Find factor pairs and multiples, and tell prime from composite numbers.

6 Helping at home

Look at house numbers on a walk: are the ones on this side odd or even? How can you tell so fast?

