Unit 2 · Odd and Even Numbers and Arrays Cheat Sheet

Unit 2 focus: odd and even numbers and doubles

1 Big Idea

Make pairs. If every object has a partner, the number is even. If one is left over, the number is odd.

2 Important Vocabulary

even	A number of objects that can be put in pairs with none left over.	14 is even: 7 pairs
odd	A number of objects that has one left over when you make pairs.	13 is odd: 6 pairs and 1 left
pair	A group of 2.	a pair of socks
equal addends	Addends that are the same number.	16 = 8 + 8

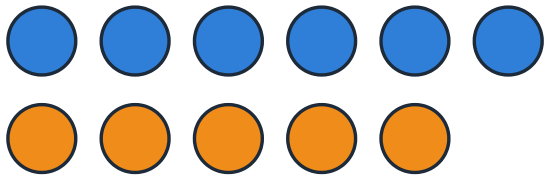
3 How It Works

Is 14 odd or even? Write it as two equal addends if you can.

Example: 14 counters
Make pairs: 7 pairs, none left
Equal addends: 7 + 7 = 14

Answer: Even, 14 = 7 + 7

4 Visual Model



11 counters: 5 pairs and 1 left over, so 11 is odd.

5 ★ Remember This · Watch Out!

★ Remember this

- Look at the ones digit: 0, 2, 4, 6, 8 means even.
- Every even number is a double.

⚠ Watch out!

- **Looking at the tens digit:** 12 is even even though the tens digit, 1, is odd
- **Unequal addends:** 14 = 10 + 4 is true, but the addends are not equal

6 Try It!

1. Is 19 odd or even?
   Answer: ppo
2. 16 = ___ + ___ (equal addends)
   Answer: 8 + 8

Answers are printed upside down. Turn the page to check!

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More practice: arrays with up to 5 rows and 5 columns and repeated addition

1 Big Idea

An array has equal rows. Add the number in a row once for every row to find the total.

2 Important Vocabulary

array	Objects in equal rows and equal columns.	3 rows of 4 dots
row	A line of objects that goes across.	an array with 3 rows
column	A line of objects that goes up and down.	an array with 4 columns
repeated addition	Adding the same number again and again.	4 + 4 + 4 = 12

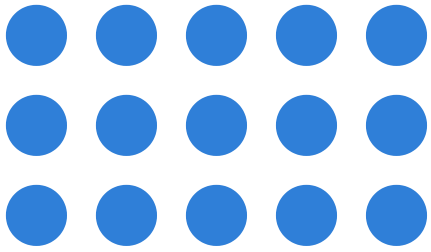
3 How It Works

Find the total in 4 rows of 3.

Example: 4 rows of 3
Each row: 3
Add 4 times: 3 + 3 + 3 + 3
Total: 12

Answer: 12

4 Visual Model



3 rows of 5: 5 + 5 + 5 = 15. By columns: 3 + 3 + 3 + 3 + 3 = 15.

5 ★ Remember This · Watch Out!

★ Remember this

- Rows go across. Columns go up and down.
- Arrays in Grade 2 have up to 5 rows and 5 columns.

⚠ Watch out!

- **Adding rows and columns:** 3 rows of 4 is not 3 + 4 = 7
- **Missing a row:** point to each row as you add

6 Try It!

1. 5 rows of 2
   Answer: 01
2. 2 rows of 5
   Answer: 01

Answers are printed upside down. Turn the page to check!