

Name \_\_\_\_\_

## Algebra • Even and Odd Numbers

**Essential Question** How are even numbers and odd numbers different?

### HANDS ON Lesson 1.1

**Learning Objective** You will determine if a group of objects, up to 20, has an even or odd number of members.

**Listen**



Use to show each number.





**FOR THE TEACHER** • Read the following problem. Beca has 8 toy cars. Can she put her cars in pairs on a shelf? Have children set pairs of cubes vertically on the ten frames. Continue the activity for the numbers 7 and 10.



Math Processes and Practices **6**

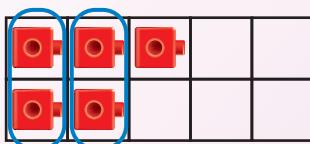
When you make pairs for 7 and for 10, how are these models different? **Explain.**

## Model and Draw

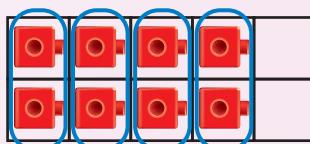
Count out cubes for each number. Make pairs.

**Even** numbers show pairs with no cubes left over.

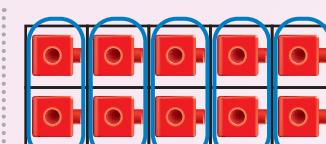
**Odd** numbers show pairs with one cube left over.



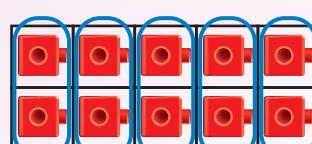
5 odd



8 even



12 \_\_\_\_\_



15 \_\_\_\_\_

## Share and Show



Use cubes. Count out the number of cubes.  
Make pairs. Then write **even** or **odd**.

1. 6 \_\_\_\_\_

2. 3 \_\_\_\_\_

3. 2 \_\_\_\_\_

4. 9 \_\_\_\_\_

5. 4 \_\_\_\_\_

6. 10 \_\_\_\_\_

7. 7 \_\_\_\_\_

8. 13 \_\_\_\_\_

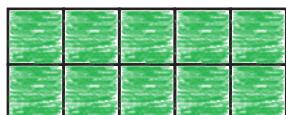
9. 11 \_\_\_\_\_

10. 14 \_\_\_\_\_

**On Your Own**

Shade in the ten frames to show the number.  
Circle **even** or **odd**.

11. 17



even

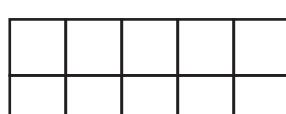
odd

12. 16



even

16



odd

13. 19



even

odd

14. There are an even number of boys and an odd number of girls in Lena's class. How many boys and girls could be in her class? Show your work.
- 
- 
- 

15.

Math Processes  
and Practices**3 Make Arguments**

Which two numbers in the box are even numbers?

\_\_\_\_\_ and \_\_\_\_\_

**Explain** how you know that they are even numbers.

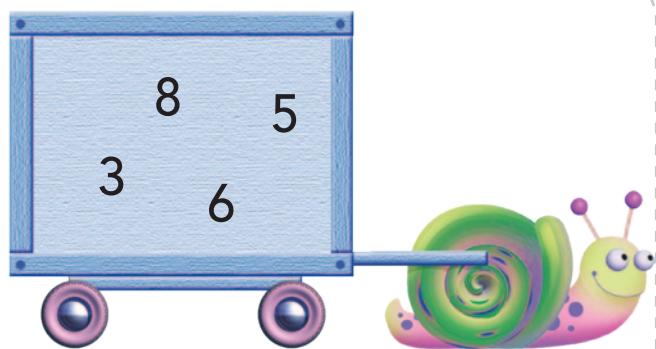
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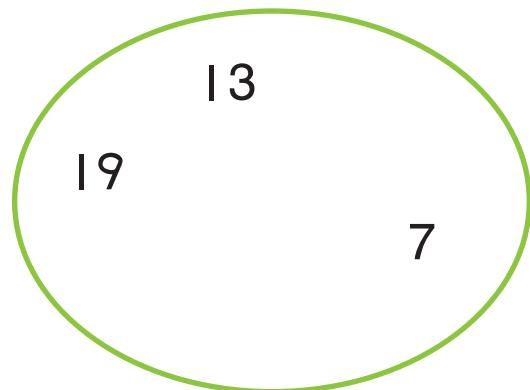


**Problem Solving • Applications****WRITE****Math**

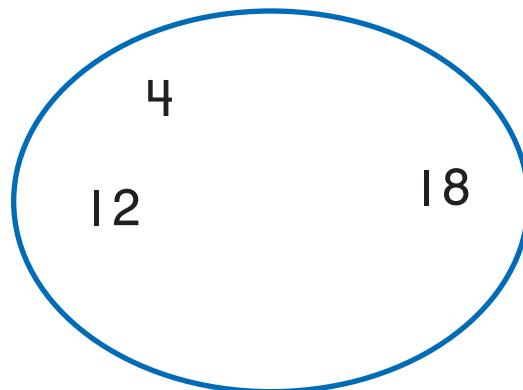
- 16.** **THINK SMARTER** Fill in the blanks to describe the groups of numbers. Write **even** or **odd**.



\_\_\_\_\_ numbers



\_\_\_\_\_ numbers



Write each of these numbers inside the correct loop.

5

6

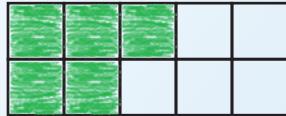
10

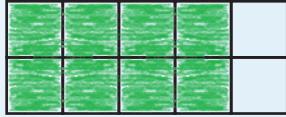
11

24

25

- 17.** **THINK SMARTER** Does each ten frame show an even number? Choose Yes or No.


 Yes

 No

 Yes

 No


**TAKE HOME ACTIVITY** • Have your child show you a number, such as 9, using small objects and explain why the number is even or odd.

**Algebra • Even and Odd Numbers****Lesson 1.1**

**Shade in the ten frames to show the number. Circle even or odd.**

1. 15


even

odd

2. 18


even

odd

3. 11


even

odd

**Problem Solving**

4. Mr. Dell has an odd number of sheep and an even number of cows on his farm. Circle the choice that could tell about his farm.

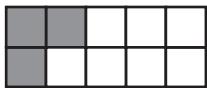
9 sheep and 10 cows  
10 sheep and 11 cows  
8 sheep and 12 cows

5. Write two odd numbers and two even numbers. Explain how you know which numbers are even and which are odd.

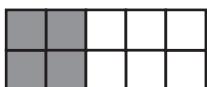
## Lesson Check

1. Circle the even number.

3



4



5



9



2. Circle the odd number.

2



6



7



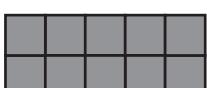
8



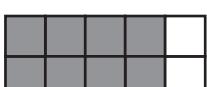
## Spiral Review

3. Circle the odd number.

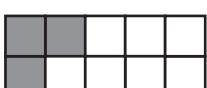
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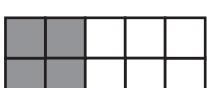
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3



4

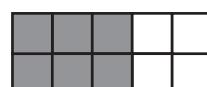


4. Circle the even number.

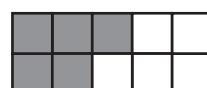
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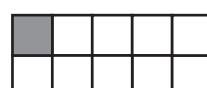
6



5



1



5. Circle the even number.

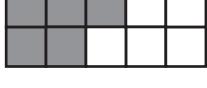
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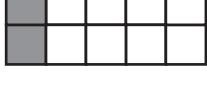
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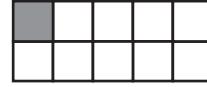


2

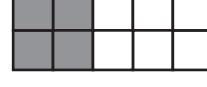


6. Circle the odd number.

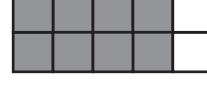
1



4



8



10

