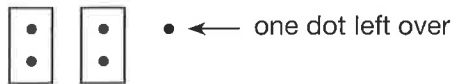


If we try to separate an odd number of objects into two equal groups, there will be one extra object. Five is an odd number. One dot is left over because five dots will not separate into two equal groups.



Example 4

The same number of boys and girls were in the classroom. Which of the following numbers could be the total number of students in the classroom?

25 26 27

An even number of students can be divided into two equal groups. Since there are an equal number of boys and girls, there must be an even number of students in the classroom. The only even number listed is **26**.

Lesson Practice

Classify Write “even” or “odd” for each number:

- a. 563
- b. 328
- c. 99
- d. 0
- e. Use the digits 3, 4, and 6 to write an even number greater than 500. Use each digit only once.
- f. **Explain** How can you tell whether a number is even?
- g. How many different three-digit numbers can you write using the digits 4, 0, and 5? Each digit may be used only once, and the digit 0 may not be used in the hundreds place. List the numbers in order and label each number as even or odd.

Written Practice

Distributed and Integrated

Represent In problems **1** and **2**, use digits to write each number.

* **1.** five hundred forty-two
(7)

* **2.** six hundred nineteen
(7)

* **3.** The numbers 4, 7, and 11 form a fact family. Write two addition facts and two subtraction facts using those three numbers.
(6)

Represent In problems 4 and 5, use words to write each number.

*4. $\begin{array}{r} 903 \\ (7) \end{array}$

*5. $\begin{array}{r} 746 \\ (7) \end{array}$

*6. $\begin{array}{r} (10) \end{array}$ Which three-digit odd number greater than 600 has the digits 4, 6, and 7?

Find each missing addend in problems 7–10.

7. $\begin{array}{r} 4 \\ (2) \quad n \\ + 3 \\ \hline 14 \end{array}$

8. $\begin{array}{r} p \\ (2) \quad 4 \\ + 2 \\ \hline 13 \end{array}$

9. $\begin{array}{r} 5 \\ (2) \quad q \\ + 7 \\ \hline 14 \end{array}$

10. $\begin{array}{r} r \\ (2) \quad 3 \\ + 2 \\ \hline 11 \end{array}$

11. $\begin{array}{r} 15 \\ (6) \quad - 7 \\ \hline \end{array}$

12. $\begin{array}{r} 14 \\ (6) \quad - 7 \\ \hline \end{array}$

13. $\begin{array}{r} 17 \\ (6) \quad - 8 \\ \hline \end{array}$

14. $\begin{array}{r} 11 \\ (6) \quad - 6 \\ \hline \end{array}$

*15. $\begin{array}{r} \$25 \\ (9) \quad + \$38 \\ \hline \end{array}$

16. $\begin{array}{r} \$19 \\ (9) \quad + \$34 \\ \hline \end{array}$

*17. $\begin{array}{r} 42 \\ (9) \quad + 8 \\ \hline \end{array}$

18. $\begin{array}{r} 17 \\ (9) \quad + 49 \\ \hline \end{array}$

*19. **Generalize** Write the rule and the next three numbers of this counting sequence:

18, 21, 24, _____, _____, _____, ...

*20. **Predict** What is the eighth number in this counting sequence?

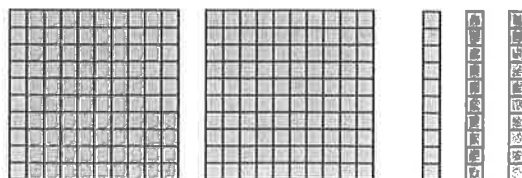
6, 12, 18, 24, ...

*21. **Formulate** If Jabari has \$6 in a piggy bank, \$12 in his wallet, and \$20 in his drawer, how much money does Jabari have in all three places? Write an equation for this problem.

22. $\begin{array}{r} (1) \end{array}$ $2 + 3 + 5 + 7 + 8 + 4 + 5$

*23. $\begin{array}{r} (5) \end{array}$ Write today's date in month/day/year form.

*24. **Represent** Use words to write the number shown by this model:



*25. What number is the largest two-digit even number?
(10)

*26. **Multiple Choice** If $\triangle + 4 = 12$, then which of these is *not* true?
(6)

A $4 + \triangle = 12$

B $12 - \triangle = 4$

C $12 + 4 = \triangle$

D $12 - 4 = \triangle$

*27. List in order from least to greatest all the three-digit numbers you can write using the digits 8, 3, and 0 in each number. The digit 0 may not be used in the hundreds place.
(10)

*28. Write “odd” or “even” for each number:
(10)

a. 73

b. 54

c. 330

d. 209

*29. **Connect** Write a horizontal subtraction number sentence.
(6)

*30. **Formulate** Write and solve an addition word problem. Then explain why your answer is reasonable.
(1)

Early Finishers
Real-World Connection

Janine noticed that the top lockers at school were odd numbers and the bottom locker numbers were even. Below is a list of the first five numbers on the bottom lockers:

300

302

304

306

308

a. Are these numbers even or odd? How do you know?

b. If this pattern continues, what will the next bottom locker number be?