

# Volume is a treat

**Finding volume** is not always an easy task. Students need hands-on experiences with volume units to make sense of three dimensions. Comparing the quantity of familiar objects helps students foster conceptions of volume because the task requires attention to attributes, counting strategies, and connections to multiplication and capacity.

Here's an example, using a familiar object—candies. Create two towers of Starburst™ candy. One tower should measure  $4 \times 4 \times 14$  candies; the second tower should measure  $4 \times 8 \times 7$  candies. Tape or wrap the towers so that students cannot disassemble them. Tell students that they can keep only one of the towers and will need to decide which one. Center student exploration and class discussion on students' counting and comparison strategies by asking the following questions:



MEGAN H. WICKSTROM (2)

## Extensions and modifications

To modify this task for younger students, allow opportunity to build rectangular prisms with the candies and to decompose the towers if needed. To add difficulty and extend the task to capacity, fill a jar with irregular-shape candies. Have students use their counting strategies to estimate the number of candies in the jar. Ask the following questions:

- How can we estimate the number of candies in the jar?
- How is this problem similar or different from the Starburst problem?

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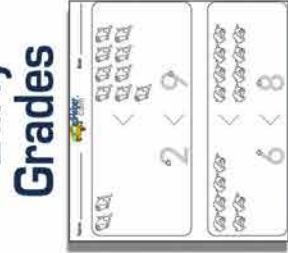
100  
Days  
of  
Summer

## >Greater<Less<Than Puzzle


Using your knowledge of greater than, less than, and equal to symbols, place the numbers 1, 2, 3, 4, 5 in the boxes below. Each number can only be used once.

-2	-5	-4	-1	-3
>	<	<	<	>
-4	-2	-7	-8	-9
>	<	<	<	>
-1	-3	-5	-2	-4

## Grades



Name \_\_\_\_\_ Date \_\_\_\_\_  
 Shape Brain Teaser  
 A 2x2 grid is shown in the center of the page.  
 To the right of the grid is a vertical strip of five shapes:  
 1. Pink triangle (pointing up)  
 2. Yellow star  
 3. Pink star  
 4. Yellow triangle (pointing up)  
 5. Pink triangle (pointing up)



**Millî Eğitim Bakanlığı**  
**Ortaokul Öğretmenleri İçin**

Yıl: \_\_\_\_\_ Sayı: \_\_\_\_\_

## okulgençku

**Okulgençku** (Okulgençku) is a program that aims to provide a comprehensive and integrated learning experience for students. It focuses on developing students' critical thinking, problem-solving, and communication skills. The program is designed to be flexible and adaptable to the needs of individual students, allowing them to learn at their own pace and in a way that suits their learning style. The program is also designed to be engaging and interactive, using a variety of teaching methods and resources to keep students motivated and interested in learning.

The program is organized into several modules, each covering a different topic. The modules are designed to be sequential, with each module building on the knowledge and skills developed in the previous module. The program is also designed to be flexible, allowing students to move between modules as needed. The program is also designed to be interactive, with students working together to solve problems and complete projects. The program is also designed to be engaging, with a variety of activities and resources used to keep students motivated and interested in learning.

The program is designed to be comprehensive, covering a wide range of topics and skills. The program is also designed to be integrated, with different subjects and skills being taught in a way that is interconnected and meaningful. The program is also designed to be flexible, allowing students to learn at their own pace and in a way that suits their learning style. The program is also designed to be engaging and interactive, using a variety of teaching methods and resources to keep students motivated and interested in learning.