

# FIND THE SUM TO 20 USING THREE NUMBERS

$$5 + 3 + 5 = 13$$

GRADE **1**

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# Classroom Procedure:

1. Introduce the lesson by reviewing the commutative property of addition. Show students how they can add three numbers in any order. Review addition problems that add to 10 and explain to students that this can be an easier way to add three numbers. If there is time, consider using the optional lesson idea of grouping students and counting to help introduce the concept.
2. Distribute Find the Sum to 20 Using Three Numbers content pages. Carefully review the material with students as younger students may have difficulty comprehending addition with more than two whole numbers. Manipulatives can be helpful!
3. Distribute the Activity Page. Students can model the beans without gluing them or use a different item to glue to the page to adapt to the lesson.
4. Distribute the Practice Page. Go over answers as a class. Have some students explain how they derived their solutions—display different methods on an anchor chart.
5. Distribute the Homework Page. Have some students share their problems with the class and have the class solve the problem. Allow the student to share the correct answer.
6. In closing, ask students to tell their shoulder partner how they would solve the problem  $1 + 2 + 3 + 4$ . Why do we need to know how to solve addition problems with more than one whole number? What are some strategies you can use? What is an easy way to check your answer?

Lesson Title: **Find the Sum to 20 Using Three Numbers**

Subject: **Math**

Approximate Grade Level: **1**

**Objectives:** Students will solve word problems that involve adding three whole numbers whose sum is less than or equal to 20 using objects, addition properties, and drawings. Students will use different strategies (i.e., chunking) to solve three whole-number addition.

**State Educational Standards\***  
LB.MATH.CONTENT.1.OA.A.2

**Class Sessions (45 minutes):**  
1 Class Session

**Teaching Materials/Worksheets:**  
Content Pages (2), Activity Page (1),  
Practice Pages (2), Homework Pages (2)

**Student Supplies:**  
Beans for each student and glue, pencils,  
scratch paper

**Prepare Ahead of Time:**  
Copies of worksheets

**Options for Lesson:** Have students work with various manipulatives to help solidify the idea of grouping numbers using the commutative property. If there is time, use the students as the manipulative by having groups of students come up to the front of the class and add them together. This is a great way to get students up and moving while giving them a concrete understanding of how to find the sum of three numbers. Then, move the groups around to demonstrate the commutative property – being a part of the lesson is something students never forget!

\*Lessons are aligned to meet the education objectives and goals of most states. For more information on your state objectives, contact your local Board of Education or Department of Education in your state.



# Teacher Notes

In this lesson, students will focus on solving addition problems with three addends. First, to find the sum, students will use objects and drawings. Then, students will group objects in a hands-on activity and create their word problem to add three numbers. By the end of the lesson, students will have a strong understanding of the commutative property of addition and be able to find the sum of three numbers up to 20.

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# Find the Sum to 20 Using Three Numbers

- How many flowers are in the vases?



First, you must count how many flowers are in each vase. That is a total of flowers. Then add the three numbers together.



$$5 + 3 + 5 = 13$$

Because addition is **commutative**, you can add numbers in any order.

$$5 + 3 = 8 + 5 = 13$$

$$5 + 5 = 10 + 3 = 13$$

- How many Lego people are there in all?

First, count how many lego people there are in each group



Then add the three numbers together.



$$6 + 2 + 4 = 12$$

Remember, addition is commutative. So you can add the numbers in any order.

$$6 + 2 = 8 + 4 = 12$$

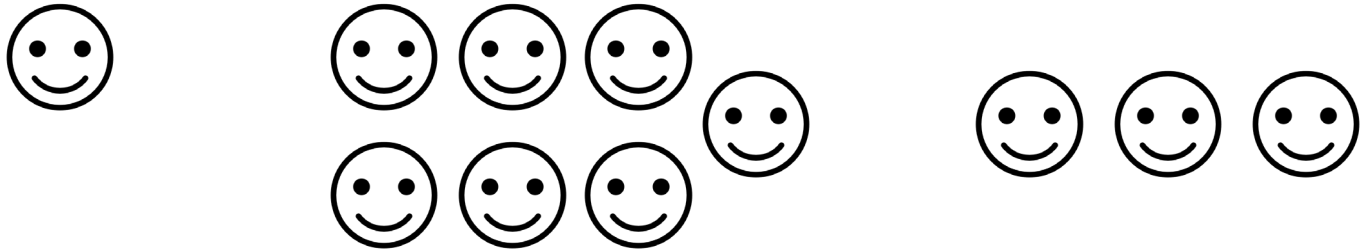
$$6 + 4 = 10 + 2 = 12$$

# Find the Sum to 20 Using Three Numbers

Instead of counting objects and adding them together to find the sum, you can solve a problem by drawing objects to help you find the sum.

- $1 + 7 + 3 = ?$

Draw happy faces to help you solve this problem.



Count all the happy faces. The sum is 11. Can you group the faces differently and get the same answer?

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- **Here is another example.**

$$8 + 5 + 3 = ?$$

Draw stars to solve this problem.



Count the stars. The sum is 16. Can you group the stars differently and get the same answer?

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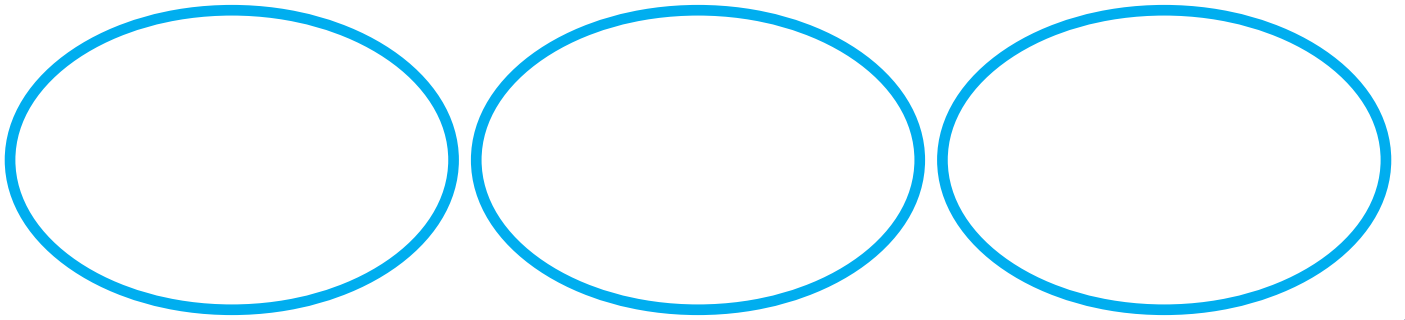
# Activity

Name \_\_\_\_\_ Date \_\_\_\_\_

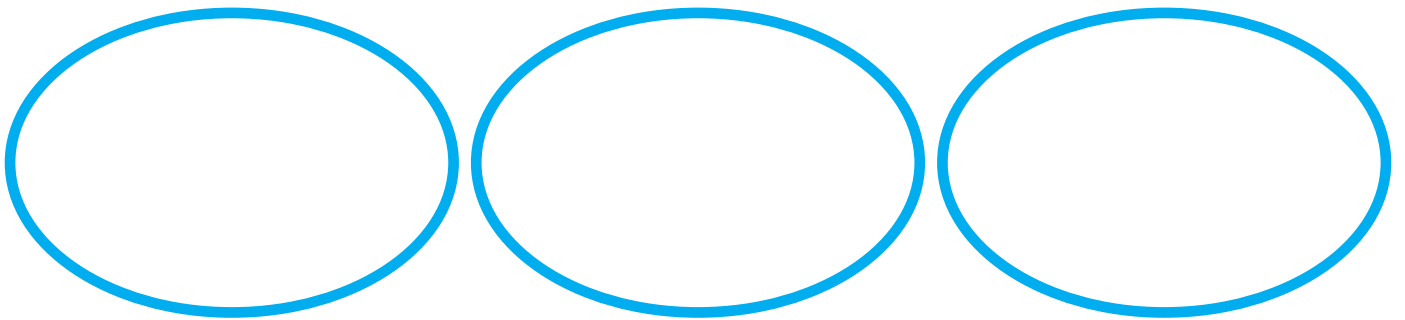
**Instructions: Make a bean model!**

Model each addition problem by gluing the beans in each group.

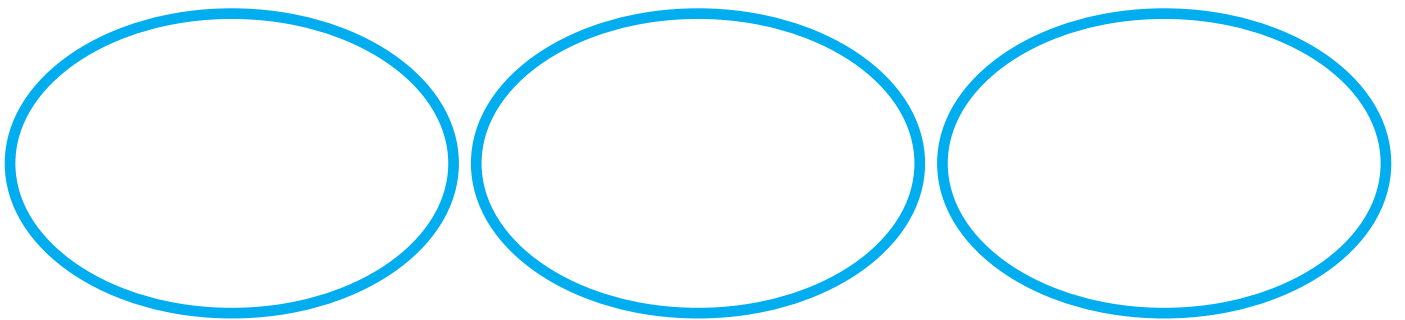
$$10 + 4 + 3 = \underline{\quad}$$



$$2 + 7 + 6 = \underline{\quad}$$



$$5 + 9 + 5 = \underline{\quad}$$





# Practice

Name \_\_\_\_\_ Date \_\_\_\_\_

Instructions: Use pictures to solve problems.

- Using the pictures, write and solve the addition problem.

\_\_\_ + \_\_\_ + \_\_\_ = \_\_\_

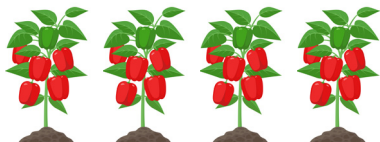
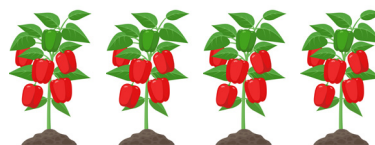
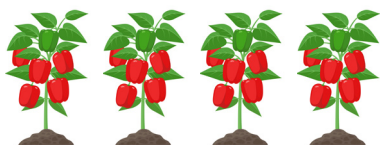
\_\_\_ + \_\_\_ + \_\_\_ = \_\_\_

\_\_\_ + \_\_\_ + \_\_\_ = \_\_\_

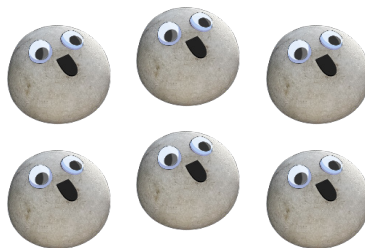
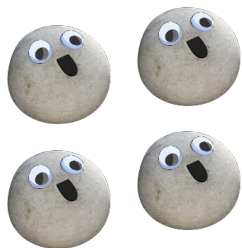


Instructions: Use pictures to solve problems.

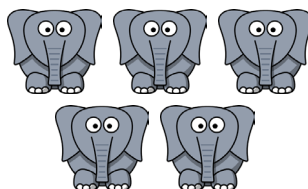
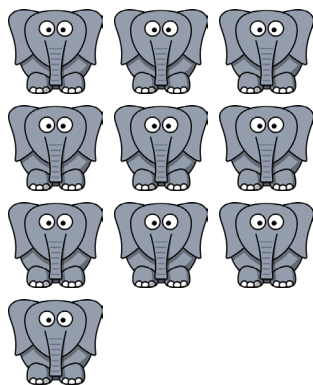
- Using the pictures, write and solve the addition problem.



$$8 + 3 + 7 = 18$$



$$4 + 6 + 2 = 12$$



$$10 + 5 + 1 = 16$$





# Homework

Name \_\_\_\_\_ Date \_\_\_\_\_



Instructions: Write a word problem using this addition problem and solve it by drawing a picture.

$$4 + 3 + 6 = ?$$



Instructions: Write a word problem using this addition problem and solve it by drawing a picture.

$$4 + 3 + 6 = ?$$

### SAMPLE ANSWER

On Halloween I got 4 pieces of candy from one house, 3 pieces of candy from the next house, and 6 giant candy bars from the last house. How much candy did I get in all?

### SAMPLE ANSWER

$$4 + 3 + 6 = 13$$

