

Unit 4

Family Letter

Reveal
MATH[®]

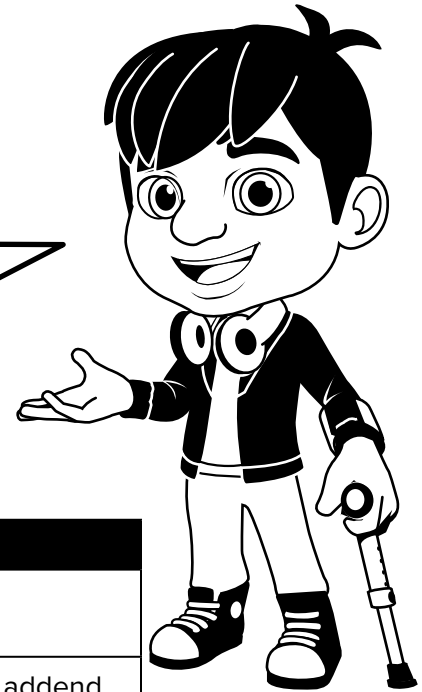
Dear Family,

In this unit, Meanings of Addition and Subtraction, we will be learning how to solve word problems using addition and subtraction equations.

STEM Career Kid for this Unit

Hi, I'm Deven.

Hello! My name is Deven, and I want to be a sound engineer. Sound engineers use math when determining the number of speakers they need for a job.



What math terms will your child use?

Term	Student Understanding
addend	numbers added to find a sum, for example, in $1 + 2 = 3$, the addends are 1 and 2
unknown	in an equation or word problem, this is the missing addend, total, or number being taken away
equation	a mathematical statement that two expressions are equal, for example, $2 + 6 = 8$, $5 + ? = 8$, $9 - 3 = 6$, and $7 - ? = 1$
bar diagram	a picture that consists of bars of different lengths that is used to represent a word problem



What can your child do at home?

Work with your child to build his or her skills with adding and subtracting within 20. Create flashcards with different equations for your child to solve.

What Will Students Learn in this Unit?

Add To and Take From Problems

In this unit, your child will learn how to add a quantity to an existing quantity and how to subtract a quantity from an existing quantity. Students will create equations to solve one- and two-step word problems with addition, subtraction, or addition and subtraction.

Example:

What equation can represent the problem? Solve and explain your equation.

Vera makes 14 birdhouses. She sells 9 birdhouses. She makes 5 more birdhouses. How many birdhouses does she have now?

$$14 - 9 + 5 = ?$$

Start with Vera's 14 birdhouses, subtract the 9 she sells, then add the 5 she makes.

Since $14 - 9 + 5 = 10$, Vera has 10 birdhouses now.

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Put Together and Take Apart Problems

Your child will also learn how to solve put together and take apart problems. The put together problems involve joining two quantities to form a greater total. The take apart problems involve breaking a total into two groups. Again, students will create equations to solve one- and two-step word problems with addition, subtraction, or addition and subtraction.

Example:

What equation can represent the problem? Solve and explain your equation.

There are 8 students in line to buy lunch. 3 students leave the line. Then some students join the line. Now there are 12 students in line. How many students joined the line?

$$8 - 3 + ? = 12$$

Start with 8 students and subtract 3 students. Then add an unknown number. The total is 12 students.

Since $8 - 3 + 7 = 12$, 7 students joined the line.

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Compare Problems

Your child will also learn how to represent and solve compare problems. These problems will use addition and/or subtraction to find how many more or fewer objects there are in one quantity than in another. Students also solve two-step comparison word problems.

Example:

What equation can represent the problem? Solve and explain your equation.

There are 6 more tulips than daisies. There are 8 daisies. How many tulips and daisies?

$$8 + 6 + 8 = ?$$

Start with $8 + 6$ to find the number of tulips. Then add 8 since there are 8 daisies.

Since $8 + 6 + 8 = 22$, there are 22 tulips and daisies.