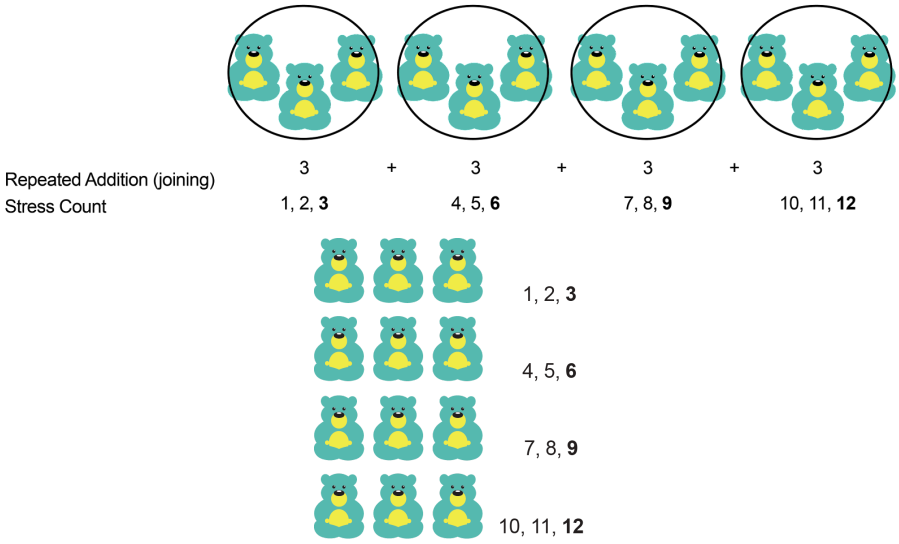
Take-Home Letter

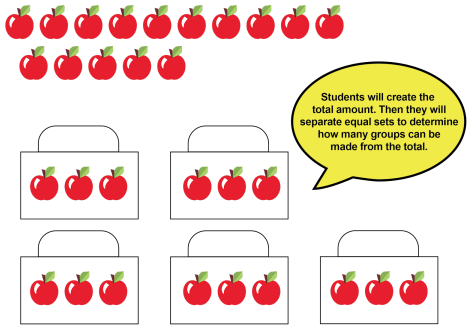
Second Grade: Multiply and Divide

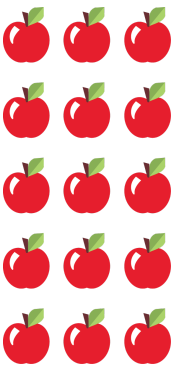
Your student is about to explore multiplication and division. To master this skill, your student will build on their knowledge of problem solving with addition and subtraction. As your student extends their knowledge of this concept throughout second grade, they will learn the following concepts:

- Modeling and describing equal groups of objects being joined, whether as individual groups or as an array



- Modeling and describing objects being shared equally, whether as individual groups or as an array





- Not writing multiplication or division equations using symbols but rather describing these types of problems using words—for example, "3 groups of 4" instead of 3 × 4

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While working with your student at home, you may find the following vocabulary terms helpful in your communication about multiplication and division. These are terms your student will be encouraged to use throughout our explorations and during our Math Chats, which are short, whole-group discussions at the conclusion of each activity.

- **array:** objects or numbers arranged in equal rows and columns
- **column:** objects that are lined up above and below each other; a vertical arrangement of objects
- **divide:** to share or separate into equal groups or equal parts
- **equal groups:** sets of objects that have the same amount or number, or have the same value
- **multiplication:** a way to create a product by making equal groups, repeating addition, or forming arrays
- **repeated addition:** a pattern of adding the same amount over and over
- **repeated subtraction:** a pattern of subtracting the same amount over and over
- **represent:** to show in some way; to stand for something
- **row:** objects that are lined up next to each other; a horizontal arrangement of objects
- **set:** a group

We will do many explorations in class to help your student learn these concepts from firsthand experiences. Encourage your student to share these experiences with you and to teach you what they have learned. Ask your student to identify examples of what they are learning in everyday life, or use the attached page for ideas of activities to do at home to apply the concept your student is learning in class.

Thank you for your support as your student begins this new learning adventure.

Sincerely,

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Tic-Tac-Toe: Try This at Home

Skip Count Up 1. Have fun with skip counting when you are in the car or at the dinner table by practicing counting by twos, threes, fours, and fives with a tune or song. 2. If your student is struggling, allow them to add up each number to get to the next one.	**Share It** 1. If you are making something in the kitchen or have a bag of candy, use these items to help your student share an amount equally. 2. Pull out a number of the items (like 25) and pick a number of friends (like 5). Have your student find how many items each friend would get. Note: Make sure the chosen number divides up evenly; second-grade students do not learn about remainders.	**Roll the Dice** 1. Roll a die to choose a number of groups. 2. Draw that many circles on a piece of paper. 3. Roll the die again, and draw that number of dots in each of the groups. 4. Find the total number of dots.
Take Away, Take Away 1. Give your student an amount that can be evenly divided by another number; for example, 24 can be divided by 6. 2. Ask your student to subtract 6 from 24 until they have no more to subtract. 3. Ask your student to find how many times they needed to subtract.	**Free Space**	**Shelves of Toys** 1. Draw a number of shelves on a piece of paper. 2. Let your student decide how many toys they would like to put on each shelf (but not more than 9). 3. Ask your student to draw the toys on the shelves and to find the total number of toys.

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Take-Home Letter

Spread It Out	Equal Groups	Skip Count Back
1. Gather a number of items that you have around the house. 2. Place a number of bowls out for your student, but make sure that the bowls will evenly divide the number of items. 3. Ask your student to separate the items into the bowls one at a time until they are all gone.	1. Open a bag of your favorite snack and see whether your student can split it into equal groups. 2. You can also open the bag and ask your student to make _____ equal groups of _____. For example, make 5 groups of 3.	1. Have fun with skip counting when you are in the car or at the dinner table by practicing counting by twos, threes, fours, and fives with a tune or song. 2. This time you are skip counting back from a given number.

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