Problem Solving using the Four Operations

Overarching Student Learning Goals In this unit, your child will work to build an understanding of the following	Resources/Tasks to support your child at home.
Identifying which operation(s) are needed to solve a problem. Think about the actions in the story problems below. Identify the operation (multiplication, division, addition or subtraction) that matches the action in the problem. Justify your thinking. Vanessa was buying DVDs of her old favorite TV series. She bought eight DVDs at the store and she bought seven online. How many DVDs did she buy total? Sample Response: "This is addition, because I am putting together the two amounts of DVDs." Sample Response: "This is multiplicate because there are equal groups that putting together."	 Addition: I am putting to different amounts together. Subtraction: I am taking some away, or I am separating a total amount. Multiplication: I have equal groups of things and I am trying to find the total. Division: I have a total amount of objects that I am separating into equal groups.
Create/draw a model to represent the actions in the word problem. Rita found 4 eggs. Joe found 3 times as many eggs as Rita. They p their eggs in the same basket. How many eggs were in the basket? Sample Models: Pita 4 4 4 4 5 6 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	 actions in the problem. LearnZillion Video: Solving Two-Step Problems Using a Model https://bit.ly/2v9KkAK

Grade 3

Representing one- and two-step word problems using equations with letter(s) to represent unknowns.

Write an equation(s) to represent the story problem below. Let "e" represent the number of eggs in the basket.

Rita found 4 eggs. Joe found 3 times as many eggs as Rita. They put their eggs in the same basket. How many eggs were in the basket?

Sample Responses:

$$4 + 12 = e$$

$$4 + (3 \times 4) = e$$

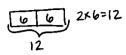
- As your child is creating models to represent one- and twostep word problems, challenge them to write equations with variables to represent each step in their model.
 Students can then try to represent all of the steps in one equation. *Students do not need to know the order of operations.
- Kahn Academy Video: Unknowns with Multiplication and Division https://bit.ly/1QiJge0

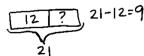
Solving one- and two-step word problems.

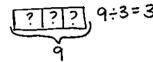
Create a models and solve the following problem.

Kami scored a total of 21 points during her basketball game. She made 6 two-point shots and the rest were three-point shots. How many three-point shots did Kami make?

Sample Response:







Kami made3 three point shots

- When students solve one- and two-step word problems, continue to reinforce the need to create models, write equations with variables and justify thinking by making connections back to the original problem.
- Khan Academy: Two-Step Estimation Problem Marbles https://bit.ly/2Kh1Qb0
- Khan Academy: Two-Step Problem Truffles https://bit.ly/2v6Zs1K
- Math Playground: Thinking Blocks Modeling Tool https://bit.ly/204Q6e6