

Real World Experience - First Grade

Addition and Subtraction within 20

Essential Question: "How will you know if you have enough food items to donate to the West Suburban Community Pantry in Woodridge?"

Teacher Instructions:

This Real World Experience must be completed throughout the 7 week unit. You will implement these activities with corresponding Topics within the unit. You can find each task under the corresponding Topic. You will need to keep all Task work during the unit for summative assessment. Tasks 1-3 will be used for formative assessment. Task 4 will be used for summative assessment. In Skyward, please record Tasks 1-3 under "computes accurately". In Skyward, please record Task 4 under "demonstrates understanding of math concepts".

1. Before reading the scenario to the class, you must decide what items you will use. Below are some possible ways to show non-perishable food items. (*Teacher discretion on how to collect them*)

Suggestions:

1. Donations from parents
2. Bring in your own pantry items
3. Save empty boxes, cans, etc.
4. Use clipart to create mock food items

2. Read the attached scenario to the class.

3. Students may choose how to sort and record the initial food items.

For Example:

1. They could sort by canned, boxed or bagged items
2. They could sort by specific food types (such as soup, vegetables, noodles, etc.)

4. For Task 1 and 2, it is possible for there to be more than 20 items in a group. In this case, the students would need to demonstrate their subtraction knowledge to complete a group of 20 items.

5. For Task 3, teachers may choose or create their own recording sheet for students to show their equations.

Scenario:

All the first grade classes have been selected by the West Suburban Community Pantry to donate food items. Each class will collect 3 different types of non-perishable food items. There must be 20 of each. You will need to determine how many food items have already been collected by the other first grade classrooms. Using a variety of strategies you will show that you can add and subtract to determine how many more or less food items, will make the donation complete. You will share the results of the donations with the class. You will then write a letter to your families to inform them of our food collection and what items are still needed.

Task 1: From the food collections provided by the teacher, count and sort the food into the categories you collected. Then create a list of the categories with the amounts of food in each category to share with the class.

Task 2: Participate in creating a graph using the class data of the food categories and amounts to determine how many more or less items we need in each category to make 20.

- How many in X category?
- How many in Y category?
- How many more are in X category than Y category?
- How many less in X category than Y category?

Task 3: Record addition and subtraction equations to determine how to compose a group of 20 in each category.

Task 4: Your family wants to know the amount of food we collected. Write a letter using words or pictures to show our findings. Be sure to include numbers to explain our results and request additional items to donate to complete groups of 20 items.

*If your class is able to make real food donations, feel free to make an actual donation to the West Suburban Community Pantry in Woodridge.

Name: _____ Date: _____

Real World Experience: Scoring Guide

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Task 1-3 are Formative Assessments				
Power Standard	Task Number	Solution	Points	Possible Points _____/14
1.OA.1 1.OA.6	1	Count to determine the amount of food in each category.	3	_____/7
		Sort to determine the amount of food in each category.	3	
		List is created for the amount of food in each category.	1	
	2	By using the class graph to display results, students will answer the following questions: -How many in X category? - How many in Y category? -How many more are in X category than Y category? -How many less in X category than Y category?		_____/4
			1	
			1	
			1	
			1	
	3	Records and computes addition/ subtraction equations to determine how to compose a group of 20 in each category. (Writes at least 3 accurate equations)	3	_____/3

	Solution	Notes
Meeting	<ul style="list-style-type: none"> - state accurately the amount of food collected <u>and</u> includes numbers to illustrate their thinking -state accurately any additional food needed to complete a group of 20 <u>and</u> includes numbers to illustrate their thinking 	
Developing	<ul style="list-style-type: none"> -states accurately the amount of food collected <u>and</u> additional food needed, but does not illustrate their thinking. Or -states accurately one or the other (amount of food or additional food) with numbers. 	