

Math: Jack's Gardening Store

Students Will

- Solve math problems using addition and multiplication of decimals
- Create their own chart and question from given data, to be interpreted
- Look at data in charts and answer questions.

Copies for the Student: "Jack's Gardening Store" worksheet

Copies for the Teacher: "Jacks Gardening Store" Answer Key

Materials Needed: Pencils, Scratch paper and Calculator (if applicable)

Guided/Independent Lesson:

Present the students with the lesson and read the directions with them. Make sure they understand how to interpret the chart and how to use the legend provided to determine how many lbs. each icon is worth in the chart. The students can complete the worksheet, parts 1 and 2, alone or with a partner. You may choose to have your students use calculators. Read the directions and assist students as necessary. Give students time to complete the activity worksheets and check the answers in class.

Evaluation: Did the students complete the activity worksheet?

TEKs

5th Grade

(3)- Number, operation, and quantitative reasoning. (A)-use addition and subtraction to solve problems involving whole numbers and decimals.

(5)- Patterns, relationships, and algebraic thinking. (A)-describe the relationship between sets of data in graphic organizers such as lists, tables, charts, and diagrams.

(14)- Underlying processes and mathematical tools. (A)-identify the mathematics in everyday situations.

6th Grade

2)- Number, operation, and quantitative reasoning. (E)- Use order of operations to simplify whole number expressions in problem solving situations. (B)- use addition and subtraction to solve problems involving fractions and decimals.

(10)- Probability and statistics. (D)- Solve problems by collecting, organizing, displaying, and interpreting data.

Correlates

Visual Arts

Gardner's Intelligences

Verbal/Linguistic

Logical/Mathematical

Bloom's Taxonomy

Knowledge, Comprehension, Application, Analysis and Evaluation






Online Resources


<http://www.operatales.com/jack-beanstalk.shtml>

Name _____ Date _____

Jack's Gardening Store

After the opera, Jack has decided to open his own store with a variety of beans in his inventory. The following chart shows Jack's inventory at this time. Please answer the following questions using the chart.

Beans	Inventory
Black	
Kidney	
Lima	
Navy	
Pinto	

 = 3.75 lbs. of beans each

1. How many black beans does Jack have in his inventory?
2. Which bean does Jack have the most of in his inventory? How much?
3. How many more kidney beans does Jack have than navy beans?
4. If Jack wanted to even out his inventory to 22.5 lbs for each kind of bean, how many more pounds of beans would he have to buy for each? What is the total number of beans he would have to order?

Part 2

Given the following information, fill in the chart below with the amount of beans to complete Jack's inventory.

Soy beans – 11.25 lbs.

Red beans – 26.25 lbs.

Edamame – 18.75 lbs.

Beans	Inventory



= 3.75 lbs. of beans each

*****Bonus Activity*****

Jack wants to add fruits and vegetables to his store. Given the legend below, create your own chart and add the following fruits and vegetables to the inventory sheet: cantaloupe, cucumbers, pumpkins, and watermelon. Then, come up with 3 questions that can be answered using your chart.


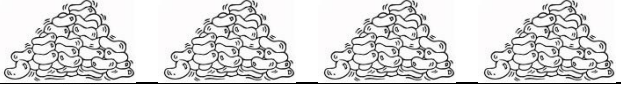






= 4.80 oz. seeds each

ANSWER KEY

Jack's Gardening Store

After the opera, Jack has decided to open his own store with a variety of beans in his inventory. The following chart shows Jack's inventory at this time. Please answer the following questions using the chart.

Beans	Inventory
Black	
Kidney	
Lima	
Navy	
Pinto	

 = 3.75 lbs. of beans each

- How many black beans does Jack have in his inventory?

11.25

- Which bean does Jack have the most amount of in his inventory and how much?

Pinto 18.75

- How many more kidney beans does Jack have than navy beans?

15.00 – 7.50 = 7.50

- If Jack wanted to even out his inventory to 22.5 lbs for each kind of bean, how many more pounds of beans would he have to buy for each? What is the total number of beans he would have to order?

Black - 11.25

Kidney - 7.50

Lima - 18.75

Navy - 15.00

Pinto - 3.75

_____ + _____

Total = 56.25

ANSWER KEY *cont.*




Part 2


Given the following information, fill in the chart below of the Jack's inventory order for the missing beans from his store.

Soy beans – 11.25 lbs.

Red beans – 26.25 lbs.

Edamame – 18.75 lbs.

Beans	Inventory
Soy	
Red	
Edamame	

 = 3.75 lbs. of beans each












ANSWER KEY *cont.*

*****Bonus Activity*** Example**

Jack wants to add fruits and vegetables to his store. Given the legend below, create your own chart and add the following fruits and vegetables to the inventory sheet: cantaloupe, cucumbers, pumpkins, and watermelon. Then, come up with 3 questions that can be answered using your chart.



= 4.80 lbs. seeds each

Vegetables	Inventory				
Cantaloupe					
Cucumbers					
Pumpkins					
Watermelon					

1. How many cantaloupe seeds does Jack have in his inventory?
2. How many more watermelon seeds than pumpkins seeds does Jack have?
3. Which seed does Jack have the least amount of?