

Answer Key

FoodMASTER Intermediate: Food on the Farm

Chapter 1 Measurement

Doodle Bugs

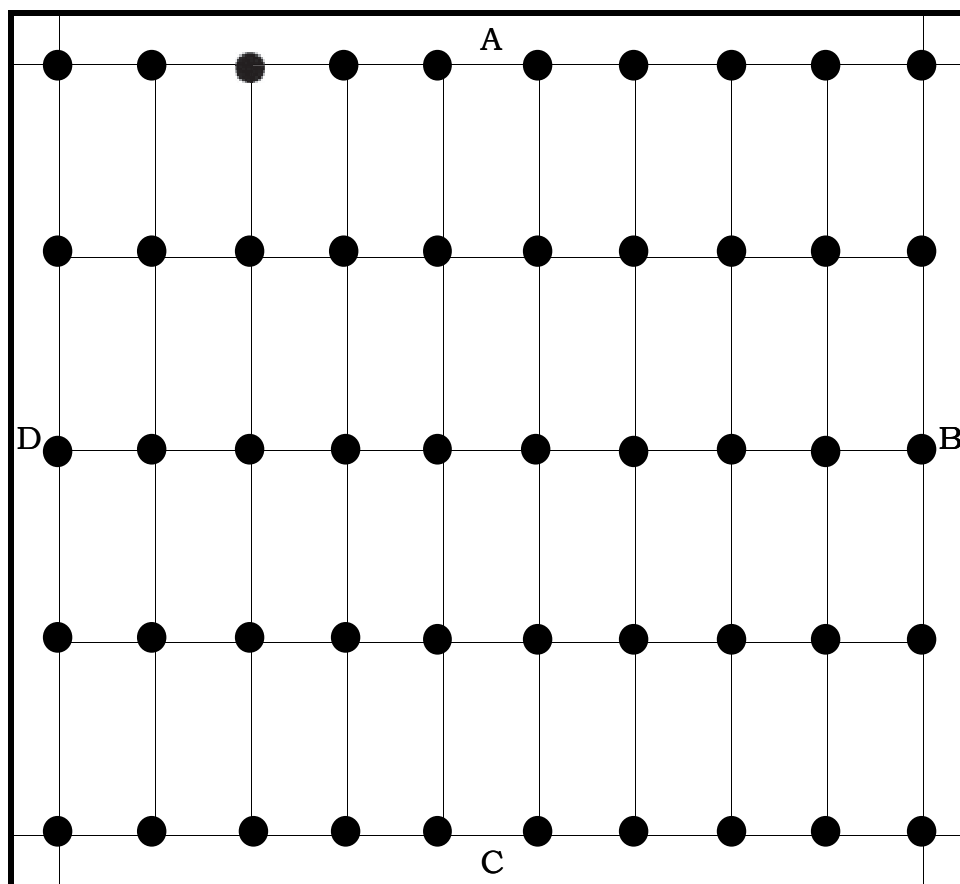
Circle: **Early to Mid-Spring**

Box: **Mathematics**

Circle : **Measuring tape**

Rulers, Grids and Lines

Potato Garden



Answer Key (continued)

- A **5** B **4.5** C **5** D **4.5**
- A **10** B **9** C **10** D **9**
- 1 **10** 2 **10** 3 **10** 4 **10** 5 **10**
- 50**
- 30**
- Answers may vary**

Sprouting Spuds

Week 1 - **Spuds get longer**

Week 2 - **Small leaves growing on potato sprouts**

Week 3 - **More leaves and longer sprouts**

Week 4 - **Long “vines” w/ leaves growing out of potato**

Proficiency Questions

- c**
- a**
- c**
- c**

Answer Key (continued)

Chapter 2 Food Safety

Doodle Bugs

Name: **Pickling**
Underline: **Yeast, bacteria, and Mold**
Circle: **Vinegar**

Ratios and Microorganisms

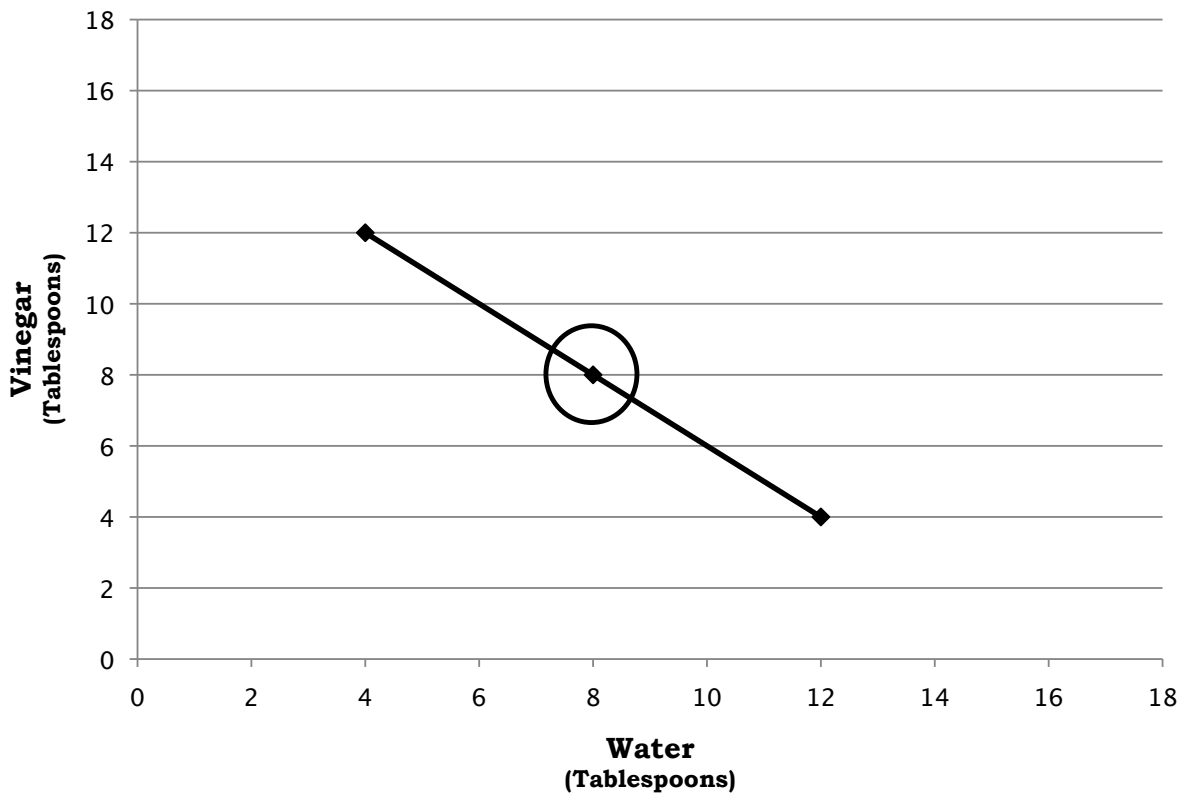
Perfect Pickles

Total Tablespoons of Pickling Mixture Needed (A)	Fraction Vinegar (B)	Fraction Water (C)	Tablespoons Water Needed (D)	Tablespoons Vinegar Needed (E)
16 Tablespoons (1 cup)	1B. $\frac{1}{4}$	1C. $\frac{3}{4}$	1D. 12	1E. 4
16 Tablespoons (1 cup)	2B. $\frac{1}{2}$	2C. $\frac{1}{2}$	2D. 8	2E. 8
16 Tablespoons (1 cup)	3B. $\frac{3}{4}$	3C. $\frac{1}{4}$	3D. 4	3E. 12

1. Water (1D) 12 Tbsp : Vinegar (1E) 4 Tbsp
2. Water (2D) 8 Tbsp : Vinegar (2E) 8 Tbsp
3. Water (3D) 4 Tbsp : Vinegar (3E) 12 Tbsp

Answer Key (continued)

Drawing the line graph



Puckering Pickles

Answers will vary.

- Example:
1. Crisp, sweet.
 2. Mushy, salty
 3. Crisp, vinegary

Proficiency Questions

1. **c** 2. **c** 3. **b** 4. **c**

Answer Key (continued)

Chapter 3 Vegetables

Doodle Bugs

Box: Leafy Vegetables
Circle: Romaine, Iceberg, or Spinach
Write: Collards, Mustard greens, Endive, etc.
Underline: The pH is based on a scale from 0-14.

Finding the Balance

Neutral pH 7

1. **If the soil tests as neutral then it is the right environment, if not the answer is no.**
2. **Answers may vary**
3. **Answers may vary**
4. **Answers may vary**

Proficiency Questions

1. **b** 2. **c** 3. **a** 4. **c** 5. **b**

Answer Key (continued)

Chapter 4 Fruits

Doodle Bugs

Underline: A recipe is a group of instructions used to make something.

Circle: Gala apples

List: Apples, sugar, cinnamon, and water

Saucy Apples

Apple Weight	Apple Amount	Applesauce Amount (Recipe Yield)
1 pound	<u>2</u> apples	1.5 cups

Original Recipe

Ingredient	Amount	
Sugar	¼ cup	
Water	½ cup	
Cinnamon	1 tsp	
Apples	2 pounds	<u>4</u> apples
Recipe Yield	3 cups	

1. 6 cups

2. 6 cups/3cups = 2

Answer Key (continued)

Classroom Recipe

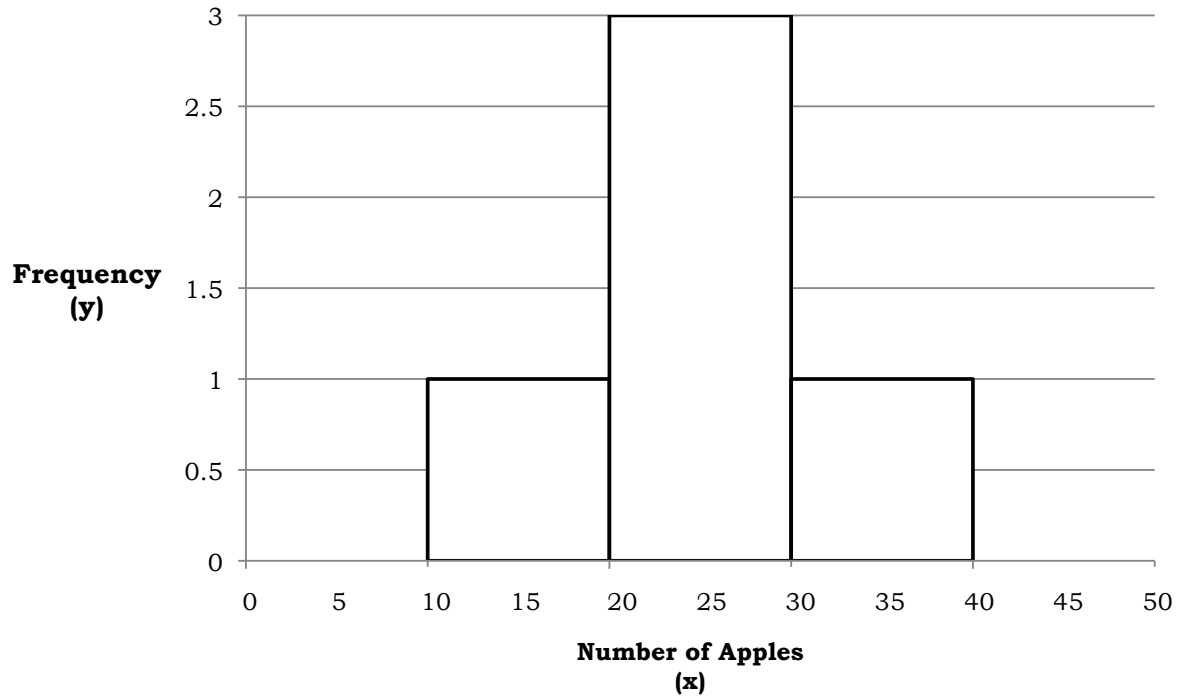
Ingredient	Original Ingredients Amount	Classroom Ingredient Amount
Apples	4 apples	8 apples
Sugar	$\frac{1}{4}$ cup	$\frac{1}{2}$ cup
Water	$\frac{1}{2}$ cup	1 cup
Cinnamon	1 tsp	2 tsp
Recipe Yield	3 cups	6 cups

Picking the apples

Number of Apples (x)	Frequency (y)
0-9	_____
10-19	<u>1</u>
20-29	<u>111</u>
30-39	<u>1</u>
40-49	_____

For each number set in the chart above, draw a bar on the graph.

Answer Key (continued)



Proficiency Questions

1. a 2. c 3. a

Answer Key (continued)

Chapter 5 Milk and Cheese

Doodle Bugs

- Circle: **Lactobacillus**
Box: **Digest food and fight bad bacteria**
List: **Answers may vary, eg. vanilla, plain, greek yogurt, etc.**

Comparing Yogurt

- a. Stephanie $1\frac{1}{4}$ b. Emily **1** c. Jonathan $1\frac{3}{4}$ d. Stewart $1\frac{1}{2}$
- a. Group 1 $2\frac{1}{4}$ b. Group 2 $3\frac{1}{4}$
- 1**
- $5\frac{1}{2}$

Fixing the recipe

- No**
- Group 2 did not double the yogurt in the recipe, they divided it in half.**
- 4** cups milk **4** Tablespoons yogurt
- Answers may vary.**

Proficiency Questions

- b**
- b**
- c**

Answer Key (continued)

Chapter 6 Meat, Poultry & Fish

Doodle Bugs

Underline: **Protein, carbohydrates, and calcium.**
How much feed?: **1/2 cup per day**
Need to know?: **How to balance the chickens diet by including protein and calcium.**

Balanced Diet

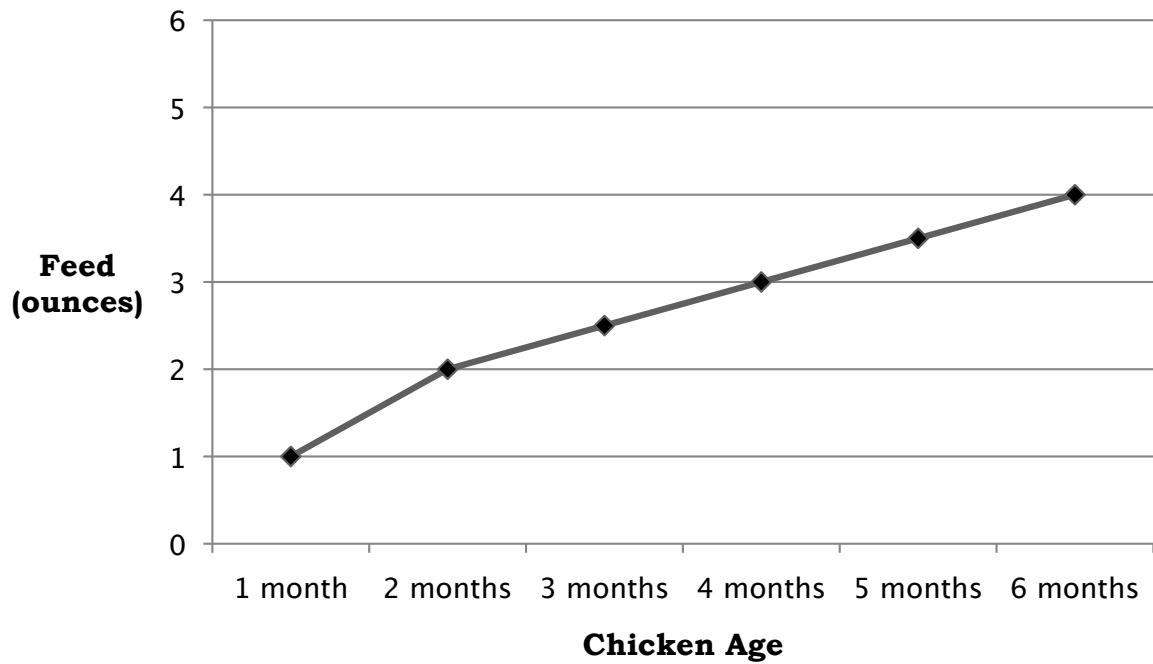
1. **15/100**
2. **40%**
3. **60%**

Raising your chicken

Chicken Age	Weight	Amount of Feed
1 month	<u> 1 </u> pounds	1 ounce
2 months	2 pounds	<u> 2 </u> ounces
3 months	<u> 2.5 </u> pounds	2.5 ounces
4 months	3 pounds	<u> 3 </u> ounces
5 months	<u> 3.5 </u> pounds	3.5 ounces
6 months	4 pounds	<u> 4 </u> ounces

Answer Key (continued)

Tracking your Chicken's Growth



Did your chicken grow steadily each month? **Yes**

Proficiency Questions

1. a 2. c 3. a

Answer Key (continued)

Chapter 7 **Eggs**

Doodle Bugs

Underline: **Earlobes**

Circle: **Amino Acids**

Circle: **Farmers Market**

Proficiency Questions

1. c 2. c 3. a

Answer Key (continued)

Chapter 8 Fats and Oils

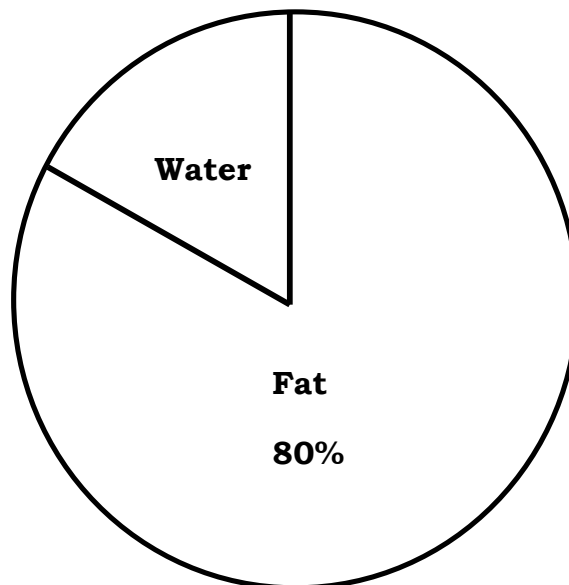
Doodle Bugs

Circle: **Saturated Fat**
Box: **Emulsion**
Butter made of?: **Fat and water**

Churn the Butter

1. Which of the products above has more butterfat? **Heavy Cream**
2. Heavy Cream Total Time: **23 minutes**
3. Half and Half Total Time: **33 minutes**
4. Which took less time to make butter, heavy cream or half and half? **Heavy Cream**

Butter



5. **See above**
6. **20/80 OR 1/4**
7. **15% water, 85% fat**
8. **35% water, 65% fat**

Proficiency Questions

1. **a**
2. **c**
3. **c**
4. **b**

Answer Key (continued)

Chapter 9 Grains

Doodle Bugs

- Circle: Dent, flint, sweet, flour, and popcorn
Underline: A medium ear has about $\frac{3}{4}$ cups of kernels.
Circle: Steam

Get Poppin'

	Popped Popcorn (Gallons)	Kernels (Cups)
Monday	1	$\frac{1}{2}$
Tuesday	2	1
Wednesday	2	1
Thursday	4	2
Friday	4	2
Saturday	8	4
Sunday	4	2

1. $12\frac{1}{2}$
2. $6\frac{1}{4}$
3. Answer may vary.

The movie theater has decided that they want you to grow their popcorn for 1 month. There are 4 weeks in this month. Answer the following questions.

4. $12\frac{1}{2}$
5. $18\frac{3}{4}$
6. 25

Proficiency Questions

1. b
2. c
3. d
4. d

Answer Key (continued)

Chapter 10 Meal Management

Doodle Bugs

Circle: **Greenhouse gases**

Fill in: **Oil**

Traveling Taters

- Route A (1) **2** inches + Route A (2) **4.5** inches
Route A (total) **6.5** inches
- 3900**
- 5** inches **3000** miles
- Route B**
- Answers may vary.**

Travel Chart

Idaho Potatoes	Total Weight	Price per pound	Price for Total Weight	Distance (shortest route)	Total Price for Trip
	5 pounds	\$1.00	\$ <u>5.00</u>	<u>3000</u> miles	\$ <u>15,000</u>

Toll Chart

Toll Roads	Price	Amount Of Tolls	Total Price For Tolls
Road 1	\$0.50	2	\$ <u>1.00</u>
Road 2	\$1.00	1	\$ <u>1.00</u>
Road 3	\$ <u>1.00</u>	3	\$ 3.00
Road 4	\$0.75	1	\$ <u>0.75</u>
TOTAL:			\$ <u>5.75</u>

Total Trip Price: Total Price for Trip + Total Price for Tolls = \$ **15,005.75**

Proficiency Questions

1. c 2. a 3. c 4. d