**It All Measures Up**

**FOLDERS**

**Measuring Experiment #1**

John wants to bake cookies. He needs to measure 1 cup of brown sugar.

Choose the proper measuring **EQUIPMENT** he will need **AND** the correct measuring **METHOD** he should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
   1. ½ c. dry measuring cup (used twice) and a spoon
   2. 1 c. liquid measuring cup, a spoon and spatula
   3. 1 c. dry measuring cup, a spoon and spatula
2. **Method:**
3. Scoop with measuring cup and level off
4. Spoon in, pack firmly and level off
5. Spoon in lightly and level off

**Measuring Experiment #2**

Sally is preparing icing for her sugar cookies. She needs to measure 2/3 cup powdered sugar.

Choose the proper measuring **EQUIPMENT** she will need **AND** the correct measuring **METHOD** she should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. ¼ c. and ½ c. dry measuring cups and a spoon
3. 1 c. liquid measuring cup, spatula and a spoon
4. 1/3 c. dry measuring cup (used twice), spatula and a spoon
5. **Method:**
6. Scoop with liquid measuring cup and level off
7. Spoon in, pack firmly with spoon and level off
8. Spoon lightly into measuring cup and level off

**Measuring Experiment #3**

Joe is preparing a chocolate pie for a party. He needs to measure 1 ¾ cup granulated sugar.

Choose the proper measuring **EQUIPMENT** he will need **AND** the correct measuring **METHOD** he should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. 1 c., ½ c. and ¼ c. dry measuring cups and spatula
3. 1 c. liquid measuring cup, spatula and a spoon
4. ¼ c. dry measuring cup, spatula and a spoon
5. **Method:**
6. Spoon into 1 c. liquid measuring cup and level off
7. Scoop into 1 c. , ½ c. and ¼ c. (one time each) and level off
8. Spoon lightly into ¼ c. dry measuring cup (7 times) and level off

**Measuring Experiment #4**

Grandma is preparing a birthday cake for you and your friends. She needs to measure 1 ½ c. butter.

Choose the proper measuring **EQUIPMENT** she will need **AND** the correct measuring **METHOD** she should use below.

**Write the correct answers in your notes.**

1. **Equipment :**
2. Knife and cutting board
3. Her hands
4. 1 c. liquid measuring cup and a spatula
5. **Method:**
6. Measure the amount needed and cut on correct package line(s)
7. Pack 1 cube of butter into a liquid measuring cup and level off
8. Unwrap and use 3 entire cubes of butter

**Measuring Experiment #5**

Julie is preparing pancakes for breakfast. She needs to measure ¾ cup vegetable oil.

Choose the proper measuring **EQUIPMENT** she will need **AND** the correct measuring **METHOD** she should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. ½ c. and ¼ c. dry measuring cups
3. 1 c. liquid measuring cup
4. 1 Tbsp. and spatula
5. **Method:**
6. Pour into dry measuring cups
7. Pour into tablespoon (12 times) directly over the mixing bowl
8. Pour into liquid measuring cup and view at eye level at correct measurement line

**Measuring Experiment #6**

Nicole is preparing cornbread for dinner. She needs to measure 3 Tbsp. of cornmeal.

Choose the proper measuring **EQUIPMENT** she will need **AND** the correct measuring **METHOD** she should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. 1 tsp.
3. 1/3 c. dry measuring cup
4. 1 Tbsp.
5. **Method:**
6. Pour into dry measuring cup and view at eye level
7. Pour or scoop into Tbsp. (3 times) and level off
8. Pour or scoop into tsp. (9 times) and shake to level off

**Measuring Experiment #7**

Karen is making No-Bake Cookies and needs to measure ¾ c. oatmeal.

Choose the proper measuring **EQUIPMENT** she will need **AND** the correct measuring **METHOD** she should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. 1 Tbsp.
3. ½ c. and ¼ c. dry measuring cups and spatula
4. ½ c. dry measuring cup, spoon and spatula
5. **Method:**
6. Scoop from canister with dry measuring cups and level off
7. Scoop with Tbsp. (12 times) and level off
8. Spoon lightly into cups, tap on counter and level off

**Measuring Experiment #8**

Jake and Aaron want to surprise their girlfriends and bake them some chocolate chip cookies. They need to measure 2/3 c. shortening.

Choose the proper measuring **EQUIPMENT** they will need **AND** the correct measuring **METHOD** they should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. 1/3 c. (used twice), spoon and spatula
3. 1/3 c. , ½ c., knife and spatula
4. 1 Tbsp., spoon and spatula
5. **Method:**
6. Scoop into liquid measuring cup and view at eye level
7. Scoop into 1 Tbsp. (11 times) and level off
8. Spoon into dry measuring cup(s), pack firmly and level off

**Measuring Experiment #9**

Dad is going to surprise the family with his special three-layer chocolate cake. His recipe calls for 3 c. of sifted flour.

Choose the proper measuring **EQUIPMENT** he will need **AND** the correct measuring **METHOD** he should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. Sifter, ½ c. and ¼ c. dry measuring cups, spatula and large plate
3. Sifter, 1 c. dry measuring cup, spoon, spatula and large plate
4. Sifter, 3 c. liquid measuring cup and spatula
5. **Method:**
6. Spoon flour into 1 c. dry measuring cup (3 times), level off, place flour into sifter, sift flour onto large plate, re-spoon sifted flour back into 1 c. (3 times) and level off
7. Scoop 3 c. flour using ½ c. and ¼ c. dry measuring cups, sift onto large plate, re-spoon sifted flour back into measuring cups, tap on counter to release air and level off
8. Pour flour into liquid measuring cup, pour into sifter, sift flour over other dry ingredients

**Measuring Experiment #10**

Maggie is making angel food cake. She needs 6 egg whites only to add to the mixture.

Choose the proper measuring **EQUIPMENT** she will need **AND** the correct measuring **METHOD** she should use below.

**Write the correct answers in your notes.**

1. **Equipment:**
2. Large mixing bowl and a spoon
3. Custard cup and an egg separator
4. 2 liquid measuring cups
5. **Method:**
6. Crack all eggs into a large mixing bowl and use a spoon to remove the egg yolks
7. Crack each egg into 1 liquid measuring cup, try to pour the egg white only into the other liquid measuring cup, continue pouring the egg back and forth between the liquid measuring cups until the white has separated from the yolk, repeat with all other eggs
8. Place egg separator over custard cup, crack each egg (one at a time) into egg separator, separate the white from the yolk, check each egg white for freshness and/or shells, add each egg white to mixture one at a time

**Measuring Experiment #11**

Choose the proper measuring **EQUIPMENT** and measuring **METHOD** for each of the ingredients below.

**Write the correct answers in your notes.**

1. **Flour**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

1. **Sugar/Salt**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

1. **Brown Sugar**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

1. **Shortening**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

1. **Oil/Water**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

1. **Margarine/Butter**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

1. **Eggs**

Equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Method: \_\_\_\_\_\_\_\_\_\_\_\_

Equivalent Experiments

FOLDERS

Experiment 1

**THE PROBLEM:**

Ralph only has 1 Tbsp., but the recipe calls for ½ c. of flour. What should Ralph do?

**THE EXPERIMENT:**

1. Using a 1 Tbsp. measuring spoon, measure ½ c. of flour into a cereal bowl.
2. **Raise your hand to be checked off.**
3. After you’ve been checked off, pour the flour back into the container.

**THE SOLUTION:**

**Write the answers in your notes.**

* 1. How many Tbsp. are in ½ c.? \_\_\_\_\_\_\_\_\_\_
  2. 1/8 c. = \_\_\_\_\_\_ Tbsp.
  3. ¼ c. = \_\_\_\_\_\_\_ Tbsp.
  4. ¾ c. = \_\_\_\_\_\_\_ Tbsp.
  5. 1 c. = \_\_\_\_\_\_\_ Tbsp.

Experiment 2

**THE PROBLEM:**

Fred needs to measure ¼ c. of shortening, but he does NOT have ¼ c. dry measuring cup. However, his cool FACS teacher taught him a new method of measuring shortening.

**THE EXPERIMENT:**

1. Take a 2-cup liquid measuring cup and fill it with tap water to the 1-cup mark.
2. With a rubber spatula, add small amounts of shortening to the liquid measuring cup until the water level reaches the 1 ¼ c. marking on the side.
3. **Raise your hand to be checked off.**
4. After you’ve been checked off, pour the water off of the shortening, return the shortening to the container and wipe out the liquid measuring cup with a paper towel.

**THE SOLUTION:**

**Write the answers in your notes.**

* + 1. What is this measuring method called? \_\_\_\_\_\_\_\_\_\_\_\_\_
    2. List two other ingredients that could be measured using this method: 1. \_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_

What is one advantage of using this method? \_\_\_\_\_\_\_

Experiment 3

**THE PROBLEM:**

Cindy needs 1 ½ tsp. of salt, but she only has ¼ tsp.

**THE EXPERIMENT:**

1. Using a ¼ tsp., measure 1 ½ tsp. of salt into a custard cup.
2. **Raise your hand to be checked off.**
3. After you have been checked off, pour the salt back into the container.

**THE SOLUTION:**

**Write the answers in your notes.**

a. How many ¼ tsp. did you use to get 1 ½ tsp.? \_\_\_\_\_\_\_\_\_

b. List the 4 standard sizes of measuring spoons:

1. \_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_

Experiment 4

**THE PROBLEM:**

Sue needs 1 qt. of water, but she only has a 1 c. liquid measuring cup.

**THE EXPERIMENT:**

1. Using the 1 c. liquid measuring cup, measure 1 qt. of water into the pitcher.

**2. Raise your hand to be checked off.**

3. After you have been checked off, pour the water out of the pitcher into the sink.

**THE SOLUTION:**

**Write the answers in your notes.**

a. How many cups of water did you use to get 1 qt.? \_\_\_\_\_

b. 1 pt. = \_\_\_\_\_\_\_ c.

c. 1 qt. = \_\_\_\_\_\_\_ pt.

d. 1 gal. = \_\_\_\_\_\_\_ qt.

Experiment 5

**THE PROBLEM:**

Jodee needs 1/8 cup of sugar, but she only has 1 Tbsp.

**THE EXPERIMENT:**

1. Using the 1 Tbsp., measure 1/8 c. into a custard cup.
2. **Raise your hand to be checked off.**
3. After you have been checked off, pour the sugar back into the container.

**THE SOLUTION:**

**Write the answers in your notes.**

a. How many Tbsp. did you use to get 1/8 c.? \_\_\_\_\_\_\_

b. 3 tsp. = \_\_\_\_\_\_\_ Tbsp.

c. 1/8 c. = \_\_\_\_\_\_\_ Tbsp.

d. ¼ c. = \_\_\_\_\_\_\_ Tbsp.

e. 1/3 c. = \_\_\_\_\_\_\_ Tbsp.

Experiment 6

**THE PROBLEM:**

Bob needs 1 ¾ c. sugar, but he only has ½ c. and ¼ c.

**THE EXPERIMENT:**

1. Using a ½ c. and ¼ c. dry measure cups, measure 1 ¾ cup of sugar into a small mixing bowl.
2. **Raise your hand to be checked off.**
3. After you have been checked off, pour the sugar back into the container.

**THE SOLUTION:**

**Write the answers in your notes.**

a. How many times did you use the ½ c.? \_\_\_\_\_\_\_\_\_\_\_

b. How many times did you use the ¼ c.? \_\_\_\_\_\_\_\_\_\_\_

c. List the 4 standard sizes of dry measuring cups:

1. \_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_

Experiment 7

**THE PROBLEM:**

Mandy only has 1 tsp., but the recipe calls for 2 Tbsp. of baking powder.

**THE EXPERIMENT:**

1. Using the 1 tsp. measuring spoon, measure 2 T. of baking powder into a custard cup.
2. **Raise your hand to be checked off.**
3. After you have been checked off, pour the baking powder back into the container.

**THE SOLUTION:**

**Write the answers in your notes.**

a. How many tsp. did you use to get 2 Tbsp.? \_\_\_\_\_\_\_\_\_

b. 1 Tbsp. = \_\_\_\_\_ tsp.

c. 1 c. = \_\_\_\_\_\_\_ tsp.

d. 1 c. = \_\_\_\_\_\_\_ Tbsp.

Experiment 8

**THE PROBLEM:**

Beth only has a 2-cup liquid measuring cup, but the recipe calls for 48 fl. oz. of water.

**THE EXPERIMENT:**

1. Using a 2-cup liquid measuring cup, measure 48 fl. oz. into a pitcher.
2. **Raise your hand to be checked off.**
3. After you have been checked off, pour the water out of the pitcher into the sink.

**THE SOLUTION:**

**Write the answers in your notes.**

a. How many c. did you use to get 48 fl. oz.? \_\_\_\_\_\_\_\_\_\_\_

b. 1 c. = \_\_\_\_\_\_\_ oz.

c. 1 qt. = \_\_\_\_\_\_\_ oz.

d. 1 gal. = \_\_\_\_\_\_\_ oz.

Know Your Abbreviations

1. T, Tb, Tbs, Tbsp – **TABELSPOON**
2. Oz – **OUNCE**
3. C, c – **CUP**
4. t, tsp. – **TEASPOON**
5. qt – **QUART**
6. #, lb. – **POUND**
7. pkg. – **PACKAGE**
8. pt. – **PINT**
9. gal.- **GALLON**
10. hr. - **HOUR**

Know Your Equivalents

1. 3 tsp = 1 Tbsp.

2. 2 Tbsp. = 1/8 c

3. 4 Tbsp. = ¼ c

4. 5 1/3 Tbsp. = 1/3 c

5. 8 Tbsp. = ½ c

6. 12 Tbsp. = ¾ c

7. 16 Tbsp. = 1 c

8. 8 fl. oz. = 1 c

9. 2 c = 1 pt

10. 16 c = 1 gal.

11. 2 pt = 1 qt

12. 8 pt = 1 gal.

13. 4 qt = 1 gal.

14. 16 oz. = 1 lb.

15. 1 stick/cube butter = 8 Tbsp.

16. 1 stick/cube butter = ½

**Equivalent Experiments Supply List**

**#1**

**1 Tbsp., spatula, cereal bowl, flour**

**#2**

**2-c. liquid measuring cup, rubber spatula, shortening, paper towels**

**#3**

**1 custard cup, 1 small bowl for salt, spatula, salt**

**#4**

**1-c. liquid measuring cup, pitcher**

**#5**

**1 Tbsp., spatula, custard cup, sugar**

**#6**

**½ c. , ¼ c., spatula, sugar**

**#7**

**1 tsp., spatula, custard cup, baking powder**

**#8**

**2-c. liquid measuring cup, pitcher**

**It All Measures Up**

Experiment #1

**Equivalent Experiments**

Experiment #1

**Know Your Abbreviations**

**and**

**Know Your Equivalents**