Baking Math Video Worksheet

Equivalents

1. The term “equivalent” means ________.
2. 1 Tablespoon = ________ Teaspoons
3. 1 Cup = ________ Tablespoons
4. 4 Tablespoons = ________ Cup
5. ________ Cups = 1 Pint
6. ________ Pints = 1 Quart
7. ________ Quarts = 1 Gallon

Hand-washing

Before working in the kitchen it is important to wash your hands. What is the three-step procedure to washing your hands?

1. ____________________________
2. ____________________________
3. ____________________________

Measuring

List 3 ingredients you would measure using dry measuring cups.

<table>
<thead>
<tr>
<th>1.</th>
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<tr>
<td>2.</td>
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<tr>
<td>3.</td>
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</table>

List 3 ingredients you would measure using a liquid measuring cup.

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<th>1.</th>
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<tr>
<td>2.</td>
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<td>3.</td>
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</table>
Baking Math

Teacher’s Key

Equivalents

1. The term “equivalent” means equal to.
2. 1 Tablespoon = ___3___ Teaspoons
3. 1 Cup = ___16___ Tablespoons
4. 4 Tablespoons = ___1/4___ Cup
5. ___2___ Cups = 1 Pint
6. ___2___ Pints = 1 Quart
7. ___4___ Quarts = 1 Gallon

Hand-washing

Before working in the kitchen it is important to wash your hands. What is the three-step procedure to washing your hands?

1. Use soap and hot water.
2. Scrub for 20 seconds.
3. Dry with a paper towel and throw the germs away.

Measuring

List 3 ingredients you would measure using dry measuring cups.

<table>
<thead>
<tr>
<th>1. flour</th>
<th>1. milk</th>
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</thead>
<tbody>
<tr>
<td>2. sugar</td>
<td>2. juice</td>
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<tr>
<td>3. rice</td>
<td>3. oil</td>
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</tbody>
</table>

List 3 ingredients you would measure using a liquid measuring cup.
How Do You Measure Up?

Measuring:

Standard measuring cups come in what 4 sizes?

______ _______ _______ _______

Standard measuring spoons come in what 4 sizes?

______ _______ _______ _______

Measuring spoons are used when measuring less than how much? ________

Abbreviations:

Tablespoon = _______ or _______ Quart = _______
Teaspoon = _______ or _______ Ounce = _______
Cup = _______ Pound = _______
Pint = _______ Gallon = _______

Equivalents:

1 Tablespoon = _______ (t-e-a)spoons 1 cup = _______ Ounces
1 cup = _______ Tablespoons 1/2 cup = _______ Ounces
1/4 cup = _______ Tablespoons 1/4 Cup = _______ Ounces
1/2 cup = _______ Tablespoons 3/4 Cup = _______ Ounces
3/4 cup = _______ Tablespoons 2 Tablespoons = _______ Ounces
1/8 cup = _______ Tablespoons 1/4 cup = _______ teaspoon
1/2 cup = _______ teaspoons 1 cup = _______ teaspoons
Altering a Recipe:

Choose a recipe from home, or one from class in which you need to measure at least six different ingredients. Record the recipe below. Alter it to make one half of the original and then double. Use correct abbreviations.

<table>
<thead>
<tr>
<th>Original Recipe</th>
<th>1/2 Recipe</th>
<th>Double Recipe</th>
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<tbody>
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</tbody>
</table>
**How Do You Measure Up?**

**Measuring:**

Standard measuring cups come in what 4 sizes?

- $\frac{1}{4}$
- $\frac{1}{3}$
- $\frac{1}{2}$
- 1

Standard measuring spoons come in what 4 sizes?

- $\frac{1}{4}$
- $\frac{1}{2}$
- 1 tsp
- 1 tbsp

Measuring spoons are used when measuring less than how much? 1/4 cup

**Abbreviations:**

Tablespoon = tbsp or T

Teaspoon = tsp or t

Cup = c

Pint = pt

Quart = qt

Ounce = oz

Pound = lb

Gallon = gal

**Equivalents:**

1 Tablespoon = 3 (t-e-a)spoons

1 cup = 8 Ounces

1 cup = 16 Tablespoons

1/2 cup = 4 Ounces

1/4 cup = 4 Tablespoons

1/4 Cup = 2 Ounces

1/2 cup = 8 Tablespoons

3/4 Cup = 6 Ounces

3/4 cup = 12 Tablespoons

2 Tablespoons = 1 Ounces

1/8 cup = 2 Tablespoons

1/4 cup = 12 teaspoon

1/2 cup = 24 teaspoons

1 cup = 48 teaspoons
When preparing food, the first step is to read the recipe. Read the Awesome Oatmeal Cookies recipe thoroughly and then answer the following questions:

1. To what temperature should you preheat the oven?

2. Which ingredients are creamed together until light and fluffy?

3. Which ingredients are considered dry ingredients?

4. Which are added first, the eggs and vanilla or the flour?

5. How are the cookies shaped?

6. How long do you bake the cookies?

7. What other clues are given to help tell when they are done?

8. Why are cookies cooled before they are stored?
Reading a Recipe

Read the following recipe for oatmeal cookies.

- Rewrite the recipe to double it (using correct abbreviations).
- List the equipment needed to make the recipe.

**AWESOME OATMEAL COOKIES**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Double Recipe</th>
<th>Equipment List</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 cups all-purpose flour</td>
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<td></td>
</tr>
<tr>
<td>1 teaspoon baking powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 teaspoon salt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 cup butter, softened</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 cup brown sugar, packed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 cup granulated sugar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 large egg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 teaspoons vanilla extract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 1/2 cups rolled oats</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 cup raisins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 cup chocolate chips</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Recipe Directions:**

1. Preheat the oven to 375 degrees F. Lightly grease two baking sheets.
2. Cream butter and sugars together until light and fluffy, using an electric mixer set on medium-high speed.
3. Add the egg and mix until combined. Stir in the vanilla extract.
4. Stir together the dry ingredients (flour, baking powder, and salt) in a separate bowl. With the mixer set on a low speed or using a wooden spoon, gradually add the dry ingredients to creamy mixture until combined. Stir in rolled oats.
5. Divide the batter in half. Stir the raisins into one half and the chocolate chips into the other.
6. Drop the dough by rounded tablespoonfuls onto the baking sheets (leave about 3 inches between each one for spreading). Flatten each cookie slightly with the back of the spoon.
7. Bake 1 or 2 baking sheets at a time for 10 to 13 minutes (check for doneness after 10 minutes). The cookies are done when they are lightly browned around the edges.
8. Remove the baking sheets to a wire rack and let the cookies cool for about 2 minutes. Using a metal spatula, remove the cookies to wire racks to cool completely. Store in an airtight container.
When preparing food, the first step is to read the recipe. Read the Awesome Oatmeal Cookies recipe thoroughly and then answer the following questions:

1. To what temperature should you preheat the oven?
   375 degrees F.

2. Which ingredients are creamed together until light and fluffy?
   butter and sugars

3. Which ingredients are considered dry ingredients?
   flour, soda and salt

4. Which are added first, the eggs and vanilla or the flour?
   egg and vanilla

5. How are the cookies shaped?
   They are dropped by rounded tablespoonfuls.

6. How long do you bake the cookies?
   10-13 minutes

7. What other clues are given to help tell when they are done?
   Light browned around edges.

8. Why are cookies cooled before they are stored?
   So they do not stick together.
Reading a Recipe

Read the following recipe for oatmeal cookies.

- Rewrite the recipe to double it (using correct abbreviations).
- List the equipment needed to make the recipe.

AWESOME OATMEAL COOKIES

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Double Recipe</th>
<th>Equipment List</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 cups all-purpose flour</td>
<td>2 1/2 c. all-purpose flour</td>
<td>2 baking sheets</td>
</tr>
<tr>
<td>1 teaspoon baking powder</td>
<td>2 tsp. baking powder</td>
<td>Electric mixer</td>
</tr>
<tr>
<td>1/2 teaspoon salt</td>
<td>1 tsp. salt</td>
<td>2 mixing bowls</td>
</tr>
<tr>
<td>1 cup butter, softened</td>
<td>2 c. butter, softened</td>
<td>Measuring cups</td>
</tr>
<tr>
<td>1/2 cup brown sugar, packed</td>
<td>1 c. brown sugar, packed</td>
<td>Measuring spoons</td>
</tr>
<tr>
<td>1/2 cup granulated sugar</td>
<td>1 c. granulated sugar</td>
<td>Rubber spatula</td>
</tr>
<tr>
<td>1 large egg</td>
<td>2 eggs</td>
<td>Wooden spoon</td>
</tr>
<tr>
<td>2 teaspoons vanilla extract</td>
<td>4 tsp. vanilla extract</td>
<td>Tablespoon</td>
</tr>
<tr>
<td>2 1/2 cups rolled oats</td>
<td>5 c. rolled oats</td>
<td>Metal spatula</td>
</tr>
<tr>
<td>3/4 cup raisins</td>
<td>1 1/2 c. raisins</td>
<td>Cooling rack</td>
</tr>
<tr>
<td>3/4 cup chocolate chips</td>
<td>1 1/2 c. chocolate chips</td>
<td>Airtight container</td>
</tr>
</tbody>
</table>

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8. Remove the baking sheets to a wire rack and let the cookies cool for about 2 minutes. Using a metal spatula, remove the cookies to wire racks to cool completely. Store in an airtight container.
Measuring Match-Up

Directions:
• Determine the best way to measure each of the following ingredients.
• Identify the correct measuring equipment to use in the left column.
• Identify the correct measuring method in the right column.

Equipment:
A. 1/4 tsp.
B. 1/2 tsp.
C. 1 tsp.
D. 1 Tbsp.

Methods:
K. Dip in. Level off.
L. Spoon in lightly, level off.
M. Pack firmly, level off.
N. Pour, view at eye level.

<table>
<thead>
<tr>
<th>Measuring Equipment</th>
<th>Ingredients</th>
<th>Measuring Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 cup milk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 cup brown sugar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 cup flour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 teaspoon vanilla</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4 cup oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 cup granulated sugar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2/3 cups oatmeal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4 cup peanut butter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 tablespoon baking soda</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/3 cup shortening</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pinch of salt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4 teaspoon cinnamon</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Measuring Match-Up

### Directions:
- Determine the best way to measure each of the following ingredients.
- Identify the correct measuring equipment to use in the left column.
- Identify the correct measuring method in the right column.

### Equipment:
- A: 1/4 tsp.
- B: 1/2 tsp.
- C: 1 tsp.
- D: 1 Tbsp.
- E: Measuring spoons
- F: Measuring cups

### Methods:
- K. Dip in. Level off.
- L. Spoon in lightly, level off.
- M. Pack firmly, level off.
- N. Pour, view at eye level.

### Measuring Equipment | Ingredients | Measuring Method
--- | --- | ---
I. | 3/4 cup milk | N. |
E. | 1 cup brown sugar | M. |
F. | 1/2 cup flour | L. |
C. | 1 teaspoon vanilla | N. |
I. | 1/4 cup oil | N. |
E. | 1 cup granulated sugar | K. |
G. (twice) | 2/3 cups oatmeal | L. |
H. | 1/4 cup peanut butter | M. |
D. | 1 tablespoon baking soda | K. |
G. | 1/3 cup shortening | M. |
J. | pinch of salt | (pinch in fingers) |
A. | 1/4 teaspoon cinnamon | K. |
Home Cooking Project

**Directions:** Select a recipe you can prepare by yourself (NO BOX MIXES!). Your recipe must require that you measure at least three ingredients. Read the recipe thoroughly, gather your equipment and ingredients, prepare the product, clean up the kitchen and have at least one family member (parent) grade you. Write out your recipe completely here:

Name of recipe: __________________________________________________________

Ingredients you had to measure:

__________________________________________
__________________________________________
__________________________________________
__________________________________________

Use the back of this sheet to complete the recipe with directions for preparation.

**Scoring Key:**

<table>
<thead>
<tr>
<th>Grading Criteria</th>
<th>Parent Score:</th>
<th>Student Score:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accurate Measurement</td>
<td>3 2 1</td>
<td>3 2 1</td>
</tr>
<tr>
<td>Following Directions</td>
<td>3 2 1</td>
<td>3 2 1</td>
</tr>
<tr>
<td>Safety &amp; Sanitation</td>
<td>3 2 1</td>
<td>3 2 1</td>
</tr>
<tr>
<td>Organization</td>
<td>3 2 1</td>
<td>3 2 1</td>
</tr>
<tr>
<td>Taste</td>
<td>3 2 1</td>
<td>3 2 1</td>
</tr>
<tr>
<td>Clean-up</td>
<td>3 2 1</td>
<td>3 2 1</td>
</tr>
</tbody>
</table>

Written comments by parent:

__________________________________________

Student Comments/What I learned:

__________________________________________

__________________________________________

__________________________________________