

Homework #17

Due Friday, Jan. 31

Name _____
Buckley or Gietzen

1. Draw a picture/model to represent the problem $6 \div \frac{3}{4}$. Then, find the quotient.

2. Johnny is making pizzas. He has $2\frac{3}{4}$ cups of mozzarella cheese. If he uses $\frac{1}{2}$ cup of cheese to make one pizza, how many pizzas can he make?

Show your work and EXPLAIN your answer.

3. Esteban is making cookies. The recipe calls for $\frac{3}{4}$ of a bag caramel squares. One bag has 24 caramel squares in it. How many caramel squares should Esteban use to make one batch of cookies?

4. Sara has 32 ounces of strawberries in a carton. She gives $\frac{3}{8}$ of the carton to her mom. How many ounces of strawberries does she give her mom?

For problems #5-7, please show all work!

5. Convert the following improper fractions to **mixed numbers**. Put in simplest form.

a. $\frac{22}{7} = \underline{\hspace{2cm}}$

b. $\frac{14}{6} = \underline{\hspace{2cm}}$

c. $\frac{100}{30} = \underline{\hspace{2cm}}$

6. Convert the following mixed numbers into **improper fractions**.

a. $9\frac{5}{8} = \underline{\hspace{2cm}}$

b. $6\frac{1}{2} = \underline{\hspace{2cm}}$

c. $1\frac{11}{12} = \underline{\hspace{2cm}}$

7. Put the following fractions in ***simplest form***.

a. $\frac{15}{20} = \underline{\hspace{2cm}}$

b. $\frac{6}{45} = \underline{\hspace{2cm}}$

c. $\frac{22}{33} = \underline{\hspace{2cm}}$

8. Use the recipe card to answer the problems below.

Peanut Butter Cookie Recipe	
$\frac{3}{4}$ cup peanut butter	
$\frac{1}{2}$ cup vegetable shortening	
$1\frac{1}{4}$ cups firmly packed light brown sugar	
3 tablespoons milk	
$2\frac{3}{4}$ teaspoons vanilla extract	
1 large egg	
$1\frac{1}{2}$ cups flour	
$\frac{3}{4}$ teaspoon baking soda	
$\frac{1}{4}$ teaspoon salt	
Makes 2 dozen cookies	Serving Size: $1\frac{1}{2}$ cookies

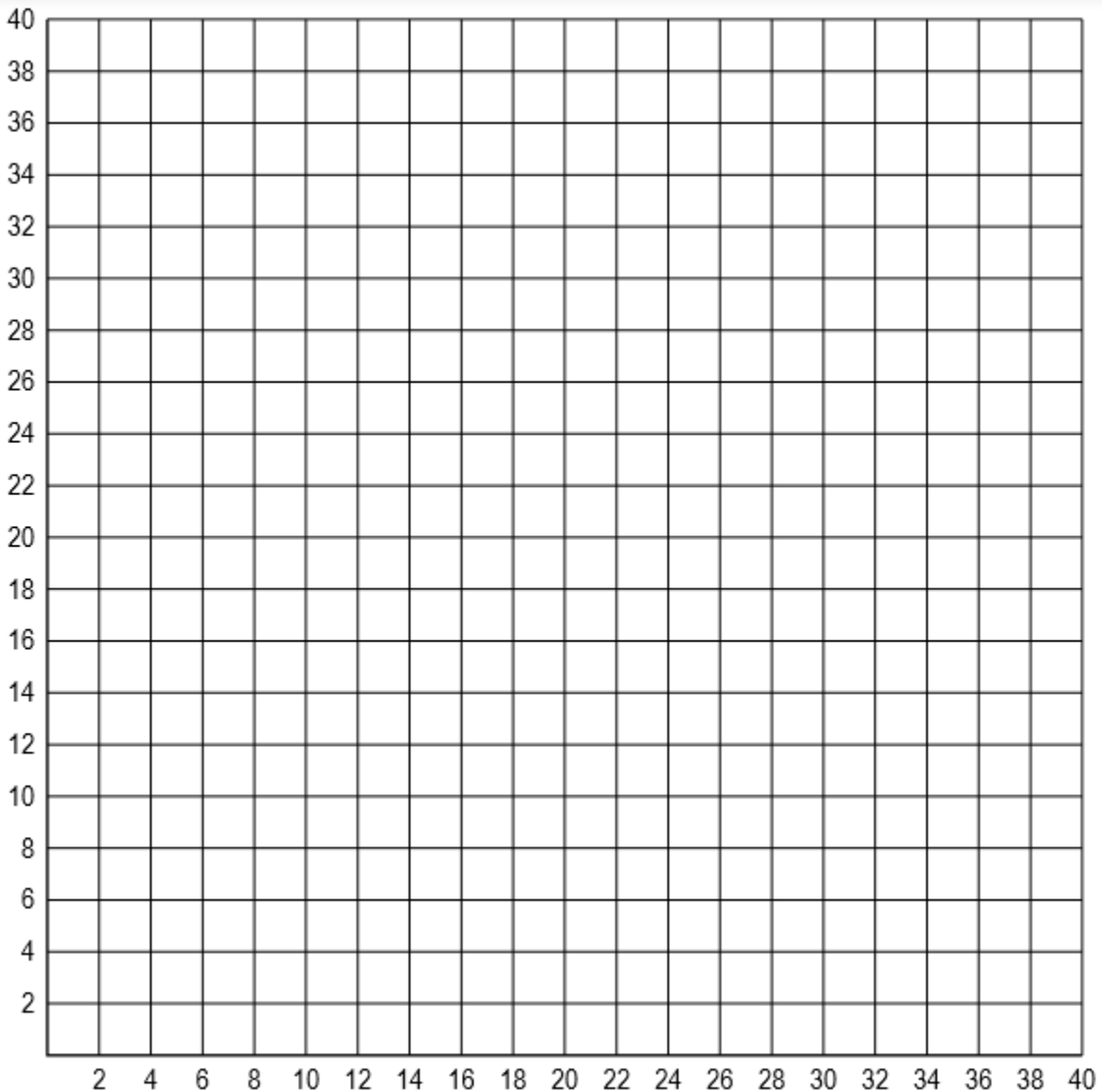
- a. After making them for her class, she decides to make some for herself at home, but she only wants to make half of the recipe. How much of each ingredient will she need?

Rewrite the recipe so that it makes 1 dozen cookies (*you can abbreviate the ingredients, like "pb" for peanut butter*):

- b. If the serving size is $1\frac{1}{2}$ cookies, how many servings does the *original recipe* make? _____

9. Just for fun! Yes, you still need to try it 😊

Connect each series of points to reveal a hidden message:



(26, 34) (26, 26) (24, 34) (28, 34) (30, 30) (34, 30) (34, 26) (34, 34) (30, 26) (30, 34)
(12, 34) (16, 34) (18, 26) (22, 34) (12, 26) (16, 26) (18, 34) (22, 26) (14, 26) (14, 34)
(34, 16) (30, 16) (30, 24) (34, 24) (28, 14) (24, 10) (28, 6) (22, 6) (18, 6) (18, 14) (22, 14)
(24, 16) (24, 24) (26, 24) (28, 20) (26, 16) (24, 16) (12, 16) (12, 24) (16, 24) (16, 20) (12, 20)
(30, 6) (34, 6) (34, 10) (30, 10) (30, 14) (34, 14) (18, 16) (18, 20) (20, 24) (22, 20) (22, 16)
(14, 20) (16, 16) (30, 20) (32, 20) (18, 20) (22, 20) (8, 10) (10, 6) (24, 6) (24, 14)
(12, 6) (12, 14) (16, 14) (16, 6) (12, 6) (6, 26) (10, 26) (10, 30) (6, 30) (6, 34) (10, 34)
(10, 24) (6, 22) (6, 18) (10, 16) (10, 20) (8, 20) (6, 6) (6, 14) (10, 14) (10, 10) (6, 10)