Math Detective® A1 Operations

16—The Best Pancake Recipe

¹Olga is having eleven friends over for a slumber party. ²She wants to make her mom's best pancake recipe. ³This is the recipe:

- 1 c flour
- 1 c buttermilk
- $1\frac{1}{3}$ T sugar
- 1 t baking powder
- $\frac{1}{2}$ t baking soda
- $\frac{1}{2}$ t salt
- 1 T vegetable oil
- 1 egg

⁴Combine the flour, baking powder, baking soda, salt, and sugar in a medium bowl. ⁵Then, add the buttermilk, egg, and oil. ⁶Mix by hand until blended. ⁷The batter will be lumpy. ⁸Heat a little oil in a skillet on medium heat. ⁹When the oil is hot, pour the mixture and flatten each pancake a little with a spoon. ¹⁰Turn only when the edges look done and bubbles begin to form on the top, which allows it to hold together. ¹¹Enjoy with pure maple syrup! ¹²Makes nine 4-inch pancakes (serves 3-4 people).

¹³Olga's mom reminds her that 1 tablespoon (T) is the same as 3 teaspoons (t). ¹⁴She also reminds Olga that four cups of liquid is the same as one quart.

Questions

1.	Give the number of the sentence that tells you how many friends are coming to the slumber party How many friends are coming?
2.	If each person eats 3 pancakes, how many people can eat from this recipe? Give the number of the sentence that provides the best evidence for you answer
3.	If each person including Olga eats 3 pancakes, how many pancakes should Olga make?
4.	By how much should Olga multiply this recipe to have enough pancakes? Use a complete sentence.

5. Change the recipe to make three pancakes for each of the twelve childr			
	flour	baking soda	
	buttermilk	salt	
	sugar	vegetable oil	
	baking powder	eggs	
6.	What fraction of a dozen eggs will Olg	ga need for the new recipe?	
7.	How many quarts of buttermilk will she need for the new recipe? Give the number of the sentence that provides the best evidence for your answer		
8.	How many tablespoons of baking powder will be needed for the new recipe? Give the number of the sentence that provides the best evidence for your answer 		
9.	 Olga mixed the flour with the buttermilk and then added the other ingredients Did Olga follow the instructions in the recipe? Use complete sentences explain your thinking. 		
10.	Give the numbers of the two sentences that provide the best evidence for your answer, When Olga turned her first pancake, the pancake fell apart! What do you think she might have done wrong? Use complete sentences to explain your thinking		
	Give the number of the sentence that	provides the best evidence for your answer.	

16—The Best Pancake Recipe

ANSWER

16—The Best Pancake Recipe, p. 36

- 1. Sentence 1. 11 friends.
- 2. 3. Sentence 12.
- 3. 36 pancakes. (12 people \times 3 = 36 pancakes)
- 4. Olga should multiply this recipe by 4.
- 5. 4c flour, 4c buttermilk (or 1 quart), $5\frac{1}{3}$ T sugar, 4t baking powder, 2t baking soda, 2t salt, 4T vegetable oil, 4 eggs.
- 6. $\frac{1}{3}$ of a dozen.
- 7. 1 quart. Sentence 14.
- 8. $1\frac{1}{3}$. Sentence 13.
- 9. No. She was supposed to combine the dry ingredients first and then the wet ingredients next. Sentences 4 and 5.
- 10. She turned the pancake too soon. Sentence 10.