

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: A True Inventor's Challenge: Be a Kitchen Chemist 1st Grade Quiz

Practice counting and grouping objects using real-world baking recipes to understand how different pieces come together to build one finished treat.

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**1. If you are making a toy car and you need 4 wheels for 1 car, how many wheels do you need to make 1 car?**

**Answer:** B) 4 wheels

Just like in chemistry, we need a specific number of parts (wheels) to make one whole object (a car).

**2. True or False: If you have extra bread but no more jelly, you can still keep making more jelly sandwiches.**

**Answer:** B) False

You need all the ingredients to make a sandwich. If you run out of one thing, you have to stop making them!

**3. To make a fruit bowl, you need 1 apple and 1 banana. If you have 2 apples and 2 bananas, you can make \_\_\_ fruit bowls.**

**Answer:** C) 2

Since each bowl needs one of each fruit, doubling the fruit means you can make two bowls.

**4. A baker uses a 'dozen' to group eggs. How many eggs are in 1 dozen?**

**Answer:** C) 12 eggs

A dozen is a special word for a group of 12. Chemists use a word called a 'mole' to group even smaller things!

**5. True or False: In a recipe, the amount of flour you start with is important to know how many cookies you will get.**

**Answer:** A) True

Scientists measure their starting materials so they can predict exactly how much they will create.

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6. If 1 box holds 10 crayons, then 2 boxes will hold \_\_\_ crayons total.

Answer: B) 20

Adding the groups together ( $10 + 10$ ) gives the total amount of items.

7. When we mix yellow paint and blue paint to make green, the green paint is called the:

Answer: B) Product

The 'product' is the name for what is created at the end of a reaction or a mix.

8. True or False: If you have a pile of heavy blocks and a pile of light feathers, the pile that weighs more always has more items in it.

Answer: B) False

Weight is different from counting. A few heavy things can weigh more than many light things.

9. Think of a tricycle. It needs 3 wheels. If you have 9 wheels, how many tricycles can you build?

Answer: C) 3 tricycles

Because  $3 + 3 + 3 = 9$ , you have enough sets of wheels for three tricycles.

10. When a scientist counts a huge group of tiny atoms, they use a very big number called a \_\_\_.

Answer: B) Mole

The 'mole' is our special science word for counting very large groups of tiny particles.