

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

## Your Recipe for Tiny Chemists: A Pre-K Stoichiometry Party

Assemble the perfect snack proportions by analyzing how small parts combine to make a whole masterpiece through ratio-based play.

---

**1. You are making a 'Block Tower Formula.' If every 1 Red Block needs exactly 2 Blue Blocks to be balanced, what happens if you have 1 Red Block and only 1 Blue Block?**

- A. The tower is complete and balanced.
- B. You have a 'limiting' blue block and the tower is unfinished.
- C. The Red Block turns into a Blue Block.
- D. You have too many Blue Blocks.

**2. If you have a giant bag of 100 cotton balls and a small bag of 5 heavy stones, the heavy stones will always have more 'pieces' inside them than the cotton balls.**

- A. True
- B. False

**3. To make a 'Perfect Pair' of socks, you need 2 individual socks. If you find 10 individual socks in your laundry basket, how many 'Perfect Pairs' can you report to the Laundry Boss?**

- A. 2 pairs
- B. 10 pairs
- C. 5 pairs
- D. 1 pair

**4. Imagine you have a 'Mole Box' that always holds exactly 6 invisible magic bells. If you have 2 'Mole Boxes,' how many magic bells do you have in total?**

- A. 6 bells
- B. 12 bells
- C. 2 bells
- D. 0 bells

**5. If your science recipe says '1 Butterfly = 2 Wings + 1 Body,' you can still make a whole Butterfly if you only have the 2 Wings.**

- A. True
- B. False

**6. You are weighing 'Teddy Bear Atoms' and 'Duckie Atoms.' If one Teddy Bear is much heavier than one Duckie, which one takes fewer pieces to weigh down a scale to 10 pounds?**

- A. The Duckies
- B. The Teddy Bears
- C. They use the same number of pieces

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

D. None of them

**7. If you have 4 wheels and 1 car body, you make 1 car. If a 'mystery box' gives you 8 wheels and 2 car bodies, how many cars can you assemble?**

- A. 1 car
- B. 4 cars
- C. 8 cars
- D. 2 cars

**8. True or False: If you mix Red Paint and Yellow Paint to make Orange, the Red Paint 'disappears' forever and is gone from the universe.**

- A. True
- B. False

**9. You have a 'Mole' of feathers (very light) and a 'Mole' of lead bricks (very heavy). What is the same about both groups?**

- A. They weigh the same amount.
- B. They take up the same space.
- C. They have the exact same number of pieces.
- D. They are the same color.

**10. A snack 'molecule' is made of 3 Cheerios and 1 Pretzel. If you have 6 Cheerios and 10 Pretzels, which ingredient will you RUN OUT of first?**

- A. Pretzels
- B. Cheerios
- C. Neither
- D. The bowl