Name _____

4-Step Order of Operations - Word Problems

Directions: Translate each situation into a math expression and solve using PEMDAS. Show **four steps**.

1. Field Trip Snacks - There are 4 coolers. Each cooler has 6 water bottles and 3 granola bars. Then 2 items per cooler are handed out. How many items are left in total?

2. Science Kits - You assemble 3 kits. Each kit needs 8 test tubes, but 2 per kit are cracked and removed. Later, 2 packs of 5 spare tubes are donated. How many tubes do you have now?

3. Ticket Budget - A group buys 6 adult tickets at $7 each and 4 child tickets at $5 each, then uses a $6 coupon off the total. How much do they pay?

4. Classroom Pencils - You stock 5 boxes; each box contains (12 pencils minus 3 broken). Then you also add 6 packs of 3 shared pencils. How many pencils in all?

5. Game Points - You start with 10 points. You complete 4 missions worth 3 points each, lose 5 for a penalty, then gain a 2-point bonus. What is your final score?

6. Bakery Slices - You make 3 cakes, each cut into 8 slices, but 2 slices per cake are eaten. Later, 2 mini cakes of 3 slices each are added. How many slices now?

7. Shelving Books - There are 48 books and (7 − 3) shelves. After dividing evenly, you add (3 − 1) more books to each shelf. How many books per shelf now?

8. Team Challenge - Each of 5 players earns (7 points minus 2 penalty) points. Then the team gets a 10-point bonus and later loses 4 points for a rule violation. What's the team's total?

9. Gift Bags - You prepare 4 gift bags. Each bag has 5 candies and 3 stickers. Later, 3 bags lose 2 items each during setup. How many items remain in total?

10. Water Stations - There are 3 stations. Each station is stocked with (12 bottles minus 2 spilled). Then 2 crates with 3 bottles each are added. How many bottles are there now?