

# SPARK Hybrid Education Center

## Mathematics | Week 4: Word Problems with Systems | Upper Level

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

*Directions: Solve each problem. Show your work in the space provided. Circle your final answer.*

1. Two numbers: sum=34, difference=10. Find them.
2. Tickets: adult \$8, child \$5. 200 sold, \$1,210 total. Adults and children?
3. A store mixes nuts: \$6/lb and \$4/lb to make 20 lb at \$5/lb. How much each?
4. Train A leaves at 60 mph, Train B at 80 mph, 2 hrs later. When do they meet?
5. Two friends combined age is 30. One is twice the other. Find their ages.
6. A piggy bank has 32 coins, all nickels and dimes. Value = \$2.45. How many each?
7. Canoe rental: \$10 plus \$5/hr. Kayak: \$7 plus \$6/hr. When is cost the same?
8. Sam invests \$5000: part at 3%, rest at 5%. Total interest = \$210. How much each?

--- Answer Key (Cut before distributing) ---

1. 22 and 12
2. 70 adults, 130 children
3. 10 lb each
4. 8 hours after Train A leaves
5. 10 and 20
6. 9 nickels, 23 dimes
7. After 3 hours
8. \$2000 at 3%, \$3000 at 5%

