Practice Test: Algebra 1 Review, Systems of Equations in 3 Variables, Systems of Inequalities

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| 1. | 2. |
| 3. | 4. Solve the system. |
| 5. | 6. |
| 7. | 8. |
| 9. Solve for x:  15 (x+4) = 10 (12+ x) | 10. Solve the system:  x + 10y = 85  x + 15y = 125 |
| 11. Solve for x:  -5(10+x) > 15 (x-2) | 12. Solve for x:  l4x+16l < 50 |
| 13. | 14. |
| 15. | 16. |
| 17. Adult movie tickets cost $12 each and children’s tickets cost $8 each. Write an inequality that represents a family’s options for buying tickets with a $50 gift card. | 18. John has $11 that he can spend on candy bars or fruits for snacks. Each candy bar costs $1.00 and each fruit costs $0.75. He needs a total of at least 12 snacks to bring to his Little League teammates. Write a system of inequalities that represents his options.  Find a solution to John’s dilemma. |

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| 1) B | 2) D | 3) B | 4) (5,4,0) | 5) C | 6) B |
| 7)  B | 8)  D | 9)  x=12 | 10)  (5,8) | 11)  x< -1 | 12)  x < 8.5 and x>-16.5  which is the same as  -16.5 < x < 8.5 |
| 13) C | 14) C | 15) A | 16) D | 17)  12a+8c ≤ 50 | 18)  c+ .75 f ≤ 11  c+f ≥ 12  6 candy bars and 6 fruits. |