Alg 1CP Test Unit 2 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_

**Part I: Solving Algebraically**

***For 1-2, solve, check, and graph. Circle your solution.***

|  |
| --- |
| 1. Check Graph     http://i.ehow.com/images/a04/so/7c/make-number-line-math-1.3-800X800.jpg |
| 2. Check Graph    http://i.ehow.com/images/a04/so/7c/make-number-line-math-1.3-800X800.jpg |

***For 3-4, solve and graph.***

|  |  |
| --- | --- |
| 3. | 3.Solution Graph  http://i.ehow.com/images/a04/so/7c/make-number-line-math-1.3-800X800.jpg |
| 4. | 4.Solution Graph  http://i.ehow.com/images/a04/so/7c/make-number-line-math-1.3-800X800.jpg |

***For 5-10, solve only.***

|  |  |
| --- | --- |
| 5. 6. | 5. |
| 6. |
| 7. 8. | 7. |
| 8. |

**Part II: Literacy - Write an inequality to represent the following:**

|  |  |
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| 9. A number decreased by 6 is less than 21. | 9. |
| 10. Negative five times a number minus four is no more than the number plus nine. | 10. |
| 11. One third of a number increased by two is at least three. | 11. |
| 12. The quotient of nine and a number is no greater than the sum of three times the number and five. | 12. |

**Part III: Applications**

|  |  |
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| 13. Fred has $125 to spend at the mall.  He purchases a music video for  $29 and a pair of jeans for $38.  He also spent $7 for lunch. Fred still  wants to purchase a video game. Assuming  it is a tax-free day, **how much money can**  **he spend on a video game?** | 13. |
| 16. Jerry has lost his wife’s favorite necklace,  so he will rent a metal detector to try to find it.  A rental company charges a one-time rental  fee of $25 plus $3 per hour. If Jerry has only  $40 to spend, ***what is the maximum amount***  ***of time he can rent the metal detector?*** | 16. |
| 17. Jack has $5,500. He wants to buy a boat  within $1,400 of this amount. **Write an**  **inequality statement that represents the range**  **of boat prices he can purchase.** | 17. |

|  |  |
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| ***Bonus: Write and graph a compound inequality with the following solution sets:*** | |
| a) No Solution | http://i.ehow.com/images/a04/so/7c/make-number-line-math-1.3-800X800.jpg Inequality Graph |
| b) All Real Numbers | http://i.ehow.com/images/a04/so/7c/make-number-line-math-1.3-800X800.jpg Inequality Graph |