**ACCEL ALGEBRA** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**UNIT 1 QUIZ 2 PRACTICE** Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Simplify or Solve

|  |  |  |  |
| --- | --- | --- | --- |
| **a.** | Simplify 2x + 3(x + 2 – y) -12 | **b.** | Simplify |
| **c.** | Solve | **d.** | Solve |
| **e.** | Simplify | **f.** | Solve |

1. Solve each inequality or compound inequality below. Show your solution in three ways

|  |  |  |  |
| --- | --- | --- | --- |
| **Inequality** | | **Graph** | **Interval** |
| **a.** |  |  |  |
| **b.** |  |  |  |
| **c.** | or |  |  |

**3.** Decide if the situation could best be modeled by an equation or inequality and then solve. Write what the solution means in a complete sentence.

**a.**  Find three consecutive odd numbers whose sum is 201. Would it be possible for three consecutive even numbers to have a sum that is odd?

**b.** Julie only has $60 to spend. She wants a drink that costs $1.50 including tax and she wants to buy a pair of pants, which has a 7% sales tax. What is the inequality that represents the amount of money she has to spend?

|  |  |
| --- | --- |
| A. | B. |
| C. | D. |

**c**. Tina wanted to see the theatrical production *Wicked*. She ordered 6 tickets online and had to pay a 3% service charge plus $4.90 for shipping. If her total was $283.00, what was the cost of each ticket?

**d.** Dan has a long distance phone plan that charges 10 cents a minute. The monthly service charge which includes all taxes is $25.85. Dan has budgeted $50.00 a month for his phone bill. What is the maximum number of long distance minutes that Dan can use?

**e.** Jack has a painting that measures 3 ft tall by 4 ft wide. Jack wants to get the painting matted and framed and hang it in between two bookshelves. The distance between the bookshelves is 5 feet. Assuming he wants to leave 2 inches on either side of the bookshelf, what’s the maximum number of inches he can use for the matting and frame?

**Accelerated Algebra Unit 1 Quiz 2 Practice Key**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1a.** | 5*x* – 3*y* - 6 | | **b.** | 3 | | | **c.** | *y* = 10 | | | **d.** |  |
| **e.** | 2 | | **f.** | x = 18 | | |  |  | | |  |  |
| **2a.** | | , | | | **b.** | , (-6, 7), | | | **c.** | *x* ≤ -12 or *x* > 4 | | |
|  | |  | | |  |  | | |  |  | | |
| **3a.** | | , The three consecutive numbers are 65, 67 and 69. It is not possible for three consecutive even numbers to have a sum that is odd. | | | | | | | | | | |
| **b.** | | D | | | | | | | | | | |
| **c.** | | or  one ticket costs $45 | | | **d.** | He can use at most 241 minutes to stay at $50 or below | | | **e.** | The width of the matting and frame can be at most 4 in | | |