Unit 7 Test: Systems of Equations A1. A. 1.2 / A1. A.1.3

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| 1. Which ordered pair below is the solution to the system graphed? A (–1, 2)B (–2, 1) C (1, –2) D(2, –1) | 2. What is the *x*-value of the solution to this system of equations?A 2 B 6 C 10 D 14 |
| 3. What is the *y*-value of the solution to this system of equations?A 3B 5C 7D 9 | 4. What is the solution to this system of equations? A (4,8) B no solution C (7,3) D (8,4) |
| 5. Bianca starts with $15 and saves $10 a week. At the same time, Jazmin starts with $45 and saves $5 a week. In how many weeks will they have the same amount of money? A 2 weeks B 4 weeks C 6 weeks D 8 weeks  | 6. Which of the following systems of equations is represented by the graph?A *y* = –2*x* –2 *y* = –2*x* – 4B *y* = *x* + 4 *y* = –3*x* – 4C *y* = –*x* – 4 *y* = 3*x* + 4D *y* = 3*x* – 1 *y* = –*x* + 4 |
| 7. Juan graphed the following lines: *y* = 4*x* + 1 and *y* = 3*x* – 2. What is the solution to this system of equations?A (–3, –1)B (–4, –15)C (–2, –7)D (–3, –11) | 8. For which system of equations is the ordered pair (–4, –5) the solution? A B  C D  |

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| 9. Luis would like to go fishing at one of the two catfish farms by his house. Floyd’s Catfish Farm charges a $5 fee to fish plus $2 per pound of fish caught. The Miller’s Catfish Farm does not charge a fee to fish, but charges $3 per pound of fish caught.Which pair of equations represents the cost (*c*) of catching *x* pounds of fish at each of the catfish farms? A *c* = 5*x* + 2 *c* = 3*x* B *c* = 2*x* + 5 *c* = 3 + *x* C *c* = 5*x* + 2 *c* = 3 + *x* D *c* = 2*x* + 5 *c* = 3*x* | 10. What answer choice best describes the number of solutions for the graph? A one solutionB two solutionsC no solution D infinite solutions |
| 11. Which of the following ordered pairs is a solution to the following system of equations?-3x + y = 8-x + y = -2A (5, -7) B (-5, 7)C (5, 7) D (-5, -7) | 12. Which system of equations is graphed?1. y = 2x – 2 C. y = x + 3

y = 3x - 4 y = 3x – 41. 2x + 4y = 9 D. y = 6x - 3

7x – 2y = 15 y = x + 2  |
| 13. How many solutions does this system of equations have? A One solutionB No solutionsC Infinite solutionsD Two solutions | 14. What would be the best method to solve the following systems of equation? 2x + 4y = 7 -2x – 2y = -5A GraphingB Elimination C Substitution D Guess and Check |
| 15. How many solutions does the system of equations have below?4x – 2y = 8y = 2x - 4A One solutionB Two solutionsC Infinitely many solutionsD No solution |

ANSWER KEY:

Q1:**B**

PTS:**1**

Q2:**D**

PTS:**1**

Q3:**D**

PTS:**1**

Q4:**D**

PTS:**1**

Q5:**C**

PTS:**1**

Q6:**C**

PTS:**1**

Q7:**D**

PTS:**1**

Q8:**B**

PTS:**1**

Q9:**D**

PTS:**1**

Q10:**C**

PTS:**1**

Q11:**D**

PTS:**1**

Q12:**C**

PTS:**1**

Q13:**A**

PTS:**1**

Q14:**B**

PTS:**1**

Q15:**C**

PTS:**1**