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 3 B 5 C 7 D 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* – 4  B *y* = *x* + 4  *y* = –3*x* – 4  C *y* = –*x* – 4  *y* = 3*x* + 4  D *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 solution B two solutions    C 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 = -2  A (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 – 4   1. 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 solution  B No solutions  C Infinite solutions  D Two solutions | 14. What would be the best method to solve the following systems of equation?  2x + 4y = 7  -2x – 2y = -5  A Graphing  B Elimination  C Substitution  D Guess and Check |
| 15. How many solutions does the system of equations have below?  4x – 2y = 8  y = 2x - 4  A One solution  B Two solutions  C Infinitely many solutions  D 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**