**SWBAT write the equation given a graph, table or description. (A.2C)**

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| ***Verbal Description***  **In the teacher work room there is a coffee maker. At the start of the year, it cost $30 to buy the coffee for the year, then teachers’ pay $0.50 to get coffee from the coffee machine. Write an equation that describes the total profit, y, and the number of times a teacher gets coffee, x.**  Equation: | ***Verbal Description*** |
| ***Table*** | ***Graph***  Which equation(s) best represent the line graphed below  **A** y = (x- 4)(x+2)  **B** 3*x* − *y* = 6  **C** *x* − 3*y* = −6  **D** y + 3 = 3(x - 1)  E y = -3x + 6 |

**Independent Practice**

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| **1.** | **2.** |

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| 3. Which function includes the data set {(2, 4), (6, 6), (12, 9)}?  **A** *y* = 2*x*  **B** *y* =  **C** *y* = 2*x* − 9  **D** *y* =  + 3 | 4. The table below shows various values for *x* and *y*.  Which equation best describes the relationship between *x* and *y*?    **A** *y* = −3*x* + 5  **B** *y* = −5*x* – 7  **C** *y* = −*x* + 17  **D** *y* = 3*x* + 41 |
| 5.  **A** -4x – 2y = -6  **B**  y = (x+3)(2x-1)  **C**  y = 1/2x + 3  **D** y + 1 = -2(x-1) | 6. The algebraic form of a linear function is *d* = *l*, where *d* is the distance in miles and *l* is the number of laps. Which of the following choices identifies the same linear function?  **F** For every 4 laps on the track, an athlete runs 1 mile.  **G** For every lap on the track, an athlete runs mile.  **H J** |

**7.** Which of the following best represents the graph of the equation 4*x* − *y* = −5?



**F G H J**