**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**