**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U6 CWK #3** *Write Equations for Lines Given Two Points*

1. Describe how to write the equation of a line in slope-intercept form when you are given two points on the line. (Use complete sentences and examples/formulas.)

**Directions:** Write the equation of the line that passes through the points given.

|  |  |  |
| --- | --- | --- |
| 1. (0, 4), (1, 3) | 1. (5, 9), (2, 0) | 1. (0, 0), (3, 6) |
| 1. (2, 2), (4, 3) | 1. (1, 2), (1, 6) | 1. (2, 4), (0, 4) |

**Directions:** Write an equation for a line from the information given in each table.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | *x* | *y* | | 3 | 8 | | 4 | 9 | | 5 | 10 | | 6 | 11 |   8.  Equation: | |  |  | | --- | --- | | *x* | *y* | | 2 | 3 | | 4 | 6 | | 6 | 9 | | 8 | 12 |   Equation: | Equation:   |  |  | | --- | --- | | *x* | *y* | | 12 | 1 | | 10 | 1 | | 8 | 1 | | 6 | 1 | |

**Directions:** Write an equation for the line given.

|  |  |
| --- | --- |
| **Equation:** | 12.    Equation: |

1. **Find, Fix, and Justify:** Jamal was asked to write an equation for the line on the graph below. Jamal’s work in shown to the right of the graph, he has made a common mistake in writing the equation for the line. Find Jamal’s mistake and explain what he did wrong. Then write the correct equation for the line.

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