**TCAP Blitz Assessment 7th Grade**

**Week 4**

1. Muna mixed 2 pints of red paint with 5 pints of blue paint to make a shade of purple. Which proportion can be used to find *x*, the percent of blue paint in the paint mixture?

|  |  |
| --- | --- |
| A |  |
| B |  |
| C |  |
| D |  |

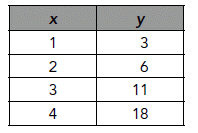
1. Janine has 100 mL of a vinegar solution that is 5% salt by weight. She adds 150 mL of a vinegar solution that is 2% salt by weight. What percent salt is the resulting solution?

|  |  |
| --- | --- |
| A | 7% |
| B | 6% |
| C | 3.5% |
| D | 3.2% |

1. Use the graph below. What is the rule for the graphed pattern?

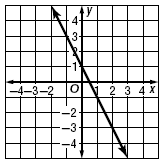
|  |  |
| --- | --- |
| A | *y* = *x* – 4 |
| B | *y* = *x* + 4 |
| C | *y* = –*x* – 4 |
| D | *y* = –*x* + 4 |

1. Use the table below. What is the pattern for the table?



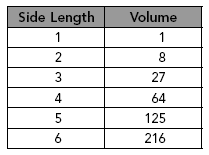
|  |  |
| --- | --- |
| A | *y* = *x* + 2 |
| B | *y* = 3*x* + 2 |
| C | *y* = *x*2 + 2 |
| D | *y* = 2*x*2 + 1 |

1. Use the graph below. What is the rule for the graphed pattern?



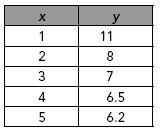
|  |  |
| --- | --- |
| A | *y* = –2*x* – 1 |
| B | *y* = –2*x* + 1 |
| C | *y* = –*x* – 1 |
| D | *y* = –*x* + 1 |

1. The table shows the side length and volume of cubes. What type of relationship is shown?



|  |  |
| --- | --- |
| A | directly proportional |
| B | inversely proportional |
| C | linear |
| D | nonlinear |

1. What is the relationship between *x* and *y* in the table below?

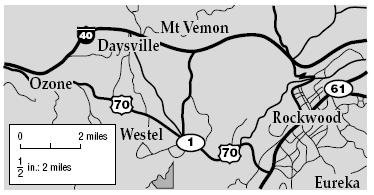


|  |  |
| --- | --- |
| A | directly proportional |
| B | linear |
| C | inversely proportional |
| D | other nonlinear relationship |

1. Which graph models a directly proportional relationship?

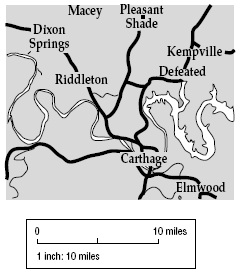
|  |  |
| --- | --- |
| A |  |
| B |  |
| C |  |
| D |  |

1. Use the map below. Ozone is  inches from Rockwood on the map. How far apart in actual distance are they?



|  |  |
| --- | --- |
| A | 2 miles |
| B | 4 miles |
| C | 6 miles |
| D | 8 miles |

1. Use the map below. Dixon Springs is 1.3 inches from Carthage on the map. How far apart are they?



|  |  |
| --- | --- |
| A | 26 miles |
| B | 19.5 miles |
| C | 13 miles |
| D | 6.5 miles |