**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_is a statement about what you think will happen based on the pattern you observed. |
| **b.** | One way to show that a conjecture is not true is to find \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |

**2. Is each conjecture correct or incorrect?**

|  |  |  |
| --- | --- | --- |
| **a.** | Every triangle has three sides. |  |
| **b.** | The opposite of a number is negative. |  |

**Multiple Choice**

**3. Write the next number in the pattern:** $1, 5, 25, 125………….$

|  |  |  |
| --- | --- | --- |
| **a.** | $150$ |  |
| **b.** | $$ 625$$ |  |
| **c.** | $$ 250$$ |  |

**4. What is the first number in the pattern?** $\\_\\_\\_\\_\\_\\_, 4, 9,16,25………….$

|  |  |  |
| --- | --- | --- |
| **a.** | $$ 1$$ |  |
| **b.** | $$2$$ |  |
| **c.** | $$3$$ |  |

**5. Are two numbers enough to show a pattern?**

|  |  |  |
| --- | --- | --- |
| **a.** | $Yes$ |  |
| **b.** | $$No$$ |  |

**ANSWERS**

**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | A conjecture is a statement about what you think will happen based on the pattern you observed. |
| **b.** | One way to show that a conjecture is not true is to find a counterexample. |

**2. Is each conjecture correct or incorrect?**

|  |  |  |
| --- | --- | --- |
| **a.** | Every triangle has three sides. | The conjecture is correct.  |
| **b.** | The opposite of a number is negative. | The conjecture is incorrect. The opposite of –2 is 2. |

**Multiple Choice**

**3. Write the next number in the pattern:** $1, 5, 25, 125………….$

|  |  |  |
| --- | --- | --- |
| **a.** | $150$ |  |
| **b.** | $$ 625$$ |  |
| **c.** | $$ 250$$ |  |

**4. What is the first number in the pattern?** $\\_\\_\\_\\_\\_\\_, 4, 9,16,25………….$

|  |  |  |
| --- | --- | --- |
| **a.** | $$ 1$$ |  |
| **b.** | $$2$$ |  |
| **c.** | $$3$$ |  |

**5. Are two numbers enough to show a pattern?**

|  |  |  |
| --- | --- | --- |
| **a.** | $Yes$ |  |
| **b.** | $$No$$ |  |