**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | The value added each time in algebraic patterns is called the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **b.** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are sequences of numbers with patterns that are based on multiplication and division. |

**2. Write T for true or F for false.**

|  |  |  |
| --- | --- | --- |
| **a.** | Algebraic patterns are number patterns with sequences based on multiplication and division. |  |
| **b.** | The value multiplied each time in geometric patterns is called thecommon ratio. |  |

**Multiple Choice**

**3. What does a set of repeated numbers, shapes, objects, or events form?**

|  |  |  |
| --- | --- | --- |
| **a.** | **Chart** |  |
| **b.** | **Pattern** |  |
| **c.** | **Group** |  |

**4. What would come next in this pattern**$ OOIOOIOOIO………….$**?**

|  |  |  |
| --- | --- | --- |
| **a.** | $$ I$$ |  |
| **b.** | $$OO$$ |  |
| **c.** | $$O$$ |  |

**5. What would come next in this pattern** $88288388488……$ **?**

|  |  |  |
| --- | --- | --- |
| **a.** | $5$ |  |
| **b.** | $$88$$ |  |
| **c.** | $$888$$ |  |

**ANSWERS**

**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | The value added each time in algebraic patterns is called thecommon difference. |
| **b.** | Geometric patterns are sequences of numbers with patterns that are based on multiplication and division. |

**2. Write T for true or F for false.**

|  |  |  |
| --- | --- | --- |
| **a.** | Algebraic patterns are number patterns with sequences based on multiplication and division. | **F** |
| **b.** | The value multiplied each time in geometric patterns is called thecommon ratio. | **T** |

**Multiple Choice**

**3. What does a set of repeated numbers, shapes, objects, or events form?**

|  |  |  |
| --- | --- | --- |
| **a.** | **Chart** |  |
| **b.** | **Pattern** |  |
| **c.** | **Group** |  |

**4. What would come next in this pattern**$ OOIOOIOOIO………….$**?**

|  |  |  |
| --- | --- | --- |
| **a.** | $$ I$$ |  |
| **b.** | $$OO$$ |  |
| **c.** | $$O$$ |  |

**5. What would come next in this pattern** $188288388488……$ **?**

|  |  |  |
| --- | --- | --- |
| **a.** | $5$ |  |
| **b.** | $$88$$ |  |
| **c.** | $$888$$ |  |