**Multiple Choice**

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| **1.** | What is the name of the missing polygon in this pattern?  Dodecagon, decagon, octagon, -…, quadrilateral. | |
|  | **a.)** heptagon | **b.)** pentagon |
|  | **c.)** triangle | **d.)** hexagon |

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| **2.** | Which figure is a counterexample to the following statement?  A quadrilateral with one pair of parallel sides is a parallelogram. | |
|  | **a.)** A right triangle has perpendicular sides. | **b.)** A trapezoid is not a parallelogram. |
|  | **c.)** A dart is not a parallelogram. | **d.)** A square is a rectangle. |

|  |  |  |
| --- | --- | --- |
| **3.** | Which number is next in the sequence: | |
|  | **a.)** | **b.)** |
|  | **c.)** | **d.)** |

**4.** Use inductive reasoning. Make a conjecture about the next figure in the pattern. Then draw the figure

|  |  |
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|  | **1 2 3** |
|  |  |

**5.** Write a rule for each number pattern, and find the next number.

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**ANSWERS**

**Multiple Choice**

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**4.** Use inductive reasoning. Make a conjecture about the next figure in the pattern. Then draw the figure

|  |  |
| --- | --- |
|  | **1 2 3** |
|  |  |

**5. Write a rule for each number pattern, and find the next number.**

|  |  |
| --- | --- |
|  |  |
|  | Start with each number is obtained by adding to the previous number.  The next number is |