**Math 7: Area and Perimeter of Basic and Composite Shapes**

**Part 1: Basic Shapes**

**Instructions**: find the perimeter and area of each figure. Round your answers to **one decimal place** if necessary. Use your formula sheet and a calculator, and be sure to complete every step of the problem to get full marks.

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| **Figure 1:** | **Radius:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Diameter:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **What is the circumference of this figure? Be sure to write down your formula.** | **What is the area of this figure? Be sure to write down your formula.** |

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| **Figure 2:** | **Base:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Height:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula.** |

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| **Figure 3:**  **Macintosh HD:private:var:folders:_x:hnm75x8j7tz9b7b48rc9dpgr0000gn:T:TemporaryItems:M2Q1.gif** | **Length:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Width:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula.** |

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| **Figure 4:**  **Macintosh HD:private:var:folders:_x:hnm75x8j7tz9b7b48rc9dpgr0000gn:T:TemporaryItems:Rectangle.gif** | **Length:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Width:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula.** |

**Part 2: Compound Shapes**

**Instructions**: find the perimeter and area of each figure. Round your answers to **one decimal place** if necessary. Use your formula sheet and a calculator, and be sure to complete every step of the problem to get full marks.

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| **Figure 5:** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula and show all work.** |

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| **Figure 6:** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula and show all work.** |

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| **Figure 7:** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula and show all work.** |

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| **Figure 8:** | **What is the perimeter of this figure? Be sure to show all work.** | **What is the area of this figure? Be sure to write down your formula and show all work.** |

**Part 3: Finding the area of the shaded region**

**Instructions**: find the area of the shaded region. Round your answers to **one decimal place** if necessary. Use your formula sheet and a calculator, and be sure to complete every step of the problem to get full marks.

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| **Figure 9:**  **Macintosh HD:private:var:folders:_x:hnm75x8j7tz9b7b48rc9dpgr0000gn:T:TemporaryItems:xarea-shaded-region_clip_image001.gif.pagespeed.ic.rBuxC4QtGy.png** |
| **What is the area of the shaded part of this figure? Be sure to write down your formula(s) and show all your work.** |

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| **Figure 10:**  **Macintosh HD:private:var:folders:_x:hnm75x8j7tz9b7b48rc9dpgr0000gn:T:TemporaryItems:images.png** |
| **What is the area of the shaded part of this figure? Be sure to write down your formula(s) and show all your work.** |

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| **Figure 11:**  **Macintosh HD:private:var:folders:_x:hnm75x8j7tz9b7b48rc9dpgr0000gn:T:TemporaryItems:img_composite_figure_6.gif** |
| **What is the area of the shaded part of this figure? Be sure to write down your formula(s) and show all your work.** |

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| **Figure 12:**  **Macintosh HD:private:var:folders:_x:hnm75x8j7tz9b7b48rc9dpgr0000gn:T:TemporaryItems:1457977511_qmhn.png** |
| **What is the area of the shaded part of this figure? Be sure to write down your formula(s) and show all your work.** |