**Math Journal Entry Date: \_\_\_\_\_\_**

**\*\*Answer the following questions to the best of your knowledge:**

1. What does volume mean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2. What is a hemisphere? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. Define radius and diameter and how they are related.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. What is the formula for finding the volume of a cone? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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5. What is the formula for finding the volume of a cylinder? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6. What is the formula for finding the volume of a sphere? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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7. Show or explain how you would find the volume of a cylinder with a radius of 4 feet and a height of 10 feet. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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8. Give a scenario in real life where you would need to find the volume of either a a cone, sphere, or cylinder or a combination of these shapes.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_