

# Chemistry

## CH. 2 –Density Worksheet

NAME \_\_\_\_\_

PERIOD \_\_\_\_\_

DATE \_\_\_\_\_

CALCULATE THE FOLLOWING USING UNIT CANCELLATION & PROPER SIG. FIGS. PUT ALL ANSWERS INTO SCIENTIFIC NOTATION.

1. What is the **density** of sugar in **g/cm<sup>3</sup>** if it's density is 1550 dag/m<sup>3</sup>?

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2. Tin has a density of 5.00 mg/dm<sup>3</sup>. What is the **volume (cm<sup>3</sup>)** of 1.75 kg of tin?

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3. Antimony has a density of 10.70 g/dm<sup>3</sup>. What is the **mass (g)** of 150 m<sup>3</sup> of antimony?

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4. Magnesium has a density of .00284 dag/mm<sup>3</sup>. What is the **volume (cm<sup>3</sup>)** of 175.5 cg of magnesium?

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5. Iron has a density of 10.87 mg/cm<sup>3</sup>. What volume (**cm<sup>3</sup>**) would 0.303 hg of iron occupy?

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6. Gold has a density of 29.3 g/cm<sup>3</sup>. What is the **mass (g)** of 1.45 cm<sup>3</sup> of gold?

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7. Find the **density (g/cm<sup>3</sup>)** of milk, if 2.00 cm<sup>3</sup> have a mass of 0.065 kg.

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8. Find the **density (g/cm<sup>3</sup>)** of a solid object if it measured 2.0 cm by 1.5 cm by 8.5 cm and had a mass of 25.5 grams.