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1. Make the following temperature conversions:

A)  $25.0^{\circ}\text{C} \rightarrow \text{K}$   
 $25.0 + 273.15 = 298.15\text{K}$

B)  $-25.0^{\circ}\text{C} \rightarrow \text{K}$   
 $-25.0 + 273.15 = 248.15\text{K}$

2. Calculate the density of a metal sphere if it causes the level of water in a graduated cylinder to increase from 25.0 mL to 35.0 mL, and has a mass of 49.81 g.  $D = \frac{m}{V}$

$m = 49.81\text{g}$   $D = \frac{49.81\text{g}}{10.0\text{mL}} = 4.98\text{g/mL}$

3. Filling a graduated cylinder, has a density of 1.11 g/mL. What is the mass in kg of 1.00 gallons of the compound?

$D = \frac{m}{V} \Rightarrow m = D \cdot V = (1.11\text{g/mL})(37.85\text{L})$   
 $m = 42.0\text{kg}$

4. What length of aluminum sheet metal (20 cm wide and 1.25 mm thick) can be prepared from 500 kg of aluminum metal?  $D = \frac{m}{V}$   $V = l \cdot w \cdot h$

$m = 500\text{kg} = 500000\text{g}$   $D_{\text{Al}} = 2.70\text{g/cm}^3$   $w = 20\text{cm}$   $h = 1.25\text{mm} = 0.125\text{cm}$   
 $V = \frac{m}{D} = \frac{500000\text{g}}{2.70\text{g/cm}^3} = 185185\text{cm}^3$   
 $l = \frac{V}{w \cdot h} = \frac{185185\text{cm}^3}{20\text{cm} \cdot 0.125\text{cm}} = 74074\text{cm} = 740.74\text{m}$

5. Copy out the following conversions by DIMENSIONAL ANALYSIS

A) 67.3 ft  $\rightarrow$  m  
 $67.3\text{ft} \cdot \frac{1\text{m}}{3.28\text{ft}} = 20.5\text{m}$

B) 452 km  $\rightarrow$  m  
 $452\text{km} \cdot \frac{1000\text{m}}{1\text{km}} = 452000\text{m}$

C) Convert the speed of light,  $3.00 \times 10^8$  m/s, to mi/hr.  
 $3.00 \times 10^8 \frac{\text{m}}{\text{s}} \cdot \frac{1\text{km}}{1000\text{m}} \cdot \frac{1\text{mi}}{1.609\text{km}} \cdot \frac{3600\text{s}}{1\text{hr}} = 6.71 \times 10^8 \frac{\text{mi}}{\text{hr}}$

**SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET**

NAME: \_\_\_\_\_

- A student measures the mass of an 8 cm<sup>3</sup> block of brown sugar to be 12.9 g. What is the density of the brown sugar?
- A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of the oil?
- Calculate the mass of a liquid with a density of 2.5 g/mL and a volume of 15 mL.
- Calculate the volume of a liquid with a density of 5.45 g/mL and a mass of 65 g.
- A machine shop worker records the mass of an aluminum cube as 176 g. If one side of the cube measures 4 cm, what is the density of the aluminum?
- A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g. What is the density of the cork?
- A carver begins work on the following block of granite that weighs 2700 g. What is the density of the granite?

30 cm      10 cm  
7 cm

- A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water. If the pipe has a mass of 78 g, what is the density of PVC?
- A solid magnesium bar has a mass of 1300 g and a volume of 743 cm<sup>3</sup>. What is the density of the magnesium?

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**CCSS Mathematics - Answer Keys for Grade 1**

Standard: CCSS.Math.Content.1.NBT.B.2

Write the number of tens and ones:

|  |   |
|--|---|
| <p>1. Write the value of: 57</p> <p>___ tens, ___ ones</p> <p>Answer: 5 tens, 7 ones</p> | <p>6. Write the value of: 46</p> <p>___ tens, ___ ones</p> <p>Answer: 4 tens, 6 ones</p>  |
| <p>2. Write the value of: 94</p> <p>___ tens, ___ ones</p> <p>Answer: 9 tens, 4 ones</p> | <p>7. Write the value of: 78</p> <p>___ tens, ___ ones</p> <p>Answer: 7 tens, 8 ones</p>  |
| <p>3. Write the value of: 83</p> <p>___ tens, ___ ones</p> <p>Answer: 8 tens, 3 ones</p> | <p>8. Write the value of: 44</p> <p>___ tens, ___ ones</p> <p>Answer: 4 tens, 4 ones</p>  |
| <p>4. Write the value of: 91</p> <p>___ tens, ___ ones</p> <p>Answer: 9 tens, 1 ones</p> | <p>9. Write the value of: 62</p> <p>___ tens, ___ ones</p> <p>Answer: 6 tens, 2 ones</p>  |
| <p>5. Write the value of: 16</p> <p>___ tens, ___ ones</p> <p>Answer: 1 tens, 6 ones</p> | <p>10. Write the value of: 63</p> <p>___ tens, ___ ones</p> <p>Answer: 6 tens, 3 ones</p> |

**Conditional Probability Worksheet 4**

|      |      |            |           |
|------|------|------------|-----------|
| P(A) | P(B) | P(A and B) | P(A or B) |
| 0.2  | 0.3  | 0.1        | 0.4       |

- What is P(A)?
- What is P(B)?
- What is P(A and B)?
- What is P(A or B)?





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