



- a. How much heat is released during the formation of 9.6 moles of  $\text{CO}_2$ ?

$$9.6 \text{ mol CO}_2 \times \frac{5638 \text{ kJ}}{12 \text{ mol CO}_2} = \text{Answer } \underline{4510.4 \text{ kJ}}$$

- b. How much heat is released during the formation of 0.036 moles of  $\text{H}_2\text{O}$ ?

$$0.036 \text{ mol H}_2\text{O} \times \frac{5638 \text{ kJ}}{11 \text{ mol H}_2\text{O}} = 18.45 \text{ kJ}$$

Answer 18.45 kJ

- c. If 1026 grams of  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  are consumed, how much heat is released?

$$1026 \text{ g C}_{12}\text{H}_{22}\text{O}_{11} \times \frac{1 \text{ mol}}{342.0 \text{ g}} = 3 \text{ mol C}_{12}\text{H}_{22}\text{O}_{11} \times \frac{5638 \text{ kJ}}{1 \text{ mol C}_{12}\text{H}_{22}\text{O}_{11}} = \underline{16914 \text{ kJ}}$$

Answer \_\_\_\_\_

- d. If 23.76 grams of  $\text{CO}_2$  are produced, how much heat is released?

$$23.76 \text{ g CO}_2 \times \frac{1 \text{ mol CO}_2}{44.0 \text{ g CO}_2} = 0.54 \text{ mol CO}_2 \times \frac{5638 \text{ kJ}}{12 \text{ mol CO}_2} = \underline{253.71 \text{ kJ}}$$

Answer \_\_\_\_\_

7. Calculate the amount of heat (in Joules) required to warm 350.0 g of water from  $30^\circ\text{C}$  to  $35^\circ\text{C}$ . (Heat Capacity (C) for  $\text{H}_2\text{O}$  is  $4180 \text{ J/kg} \cdot ^\circ\text{C}$ )

$$\text{Heat} = m \cdot C \cdot \Delta t$$

$$= 0.350 \text{ kg} \times 4180 \frac{\text{J}}{\text{kg} \cdot ^\circ\text{C}} \times 5^\circ\text{C} = \underline{7315 \text{ J}}$$

Answer \_\_\_\_\_

8. 35.112 kJ of heat are added to a 500.0 gram sample of water initially at  $7^\circ\text{C}$ . Calculate the final temperature of the water sample. Be careful with units!

$$\text{Heat} = m \cdot C \cdot \Delta t$$

$$35,112 \text{ J} = 0.500 \text{ kg} \times 4180 \frac{\text{J}}{\text{kg} \cdot ^\circ\text{C}} \times \Delta t^\circ\text{C}$$

$t_{\text{final}} = t_{\text{init}} + \Delta t$

Answer  $t_{\text{final}} = 7 + 16.8 = \underline{23.8^\circ\text{C}}$

$$\Delta t = \frac{35112}{(0.500 \times 4180)} = \underline{16.8^\circ\text{C}}$$

# Mole Calculation Practice Worksheet Answer Key

**Mark Steyvers**



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