

**CHEM 101 Quiz #6 Chapter 6 ANSWERS****1. (4 points)**

The specific heat (s) of iron (Fe) is 0.40 J/(g·K). Calculate the heat effect  $q$  when 20 g of iron is heated from 100 °C to 200 °C. Include the sign!

$$q = m \cdot s \cdot \Delta T \text{ for } \Delta T \text{ in } \Delta K = \Delta ^\circ C \quad q = 20 \times 0.40 \times (200 - 100) = +800 \text{ J}$$

You must include the units and sign in the answer!

**2. (4 points)**

The Molar Mass of Mg = 24.0 g/mol.

Calculate the enthalpy change when 2.40 g Mg(s) reacts with excess oxygen. Include the sign!

$$2.40 \text{ g Mg} = 2.40/24.0 = 0.1 \text{ mol} \rightarrow \Delta H = 0.1(\text{mol}) \times (-600)(\text{kJ/mol}) = -60 \text{ kJ}$$

Again, your answer must include both the sign and the units.

**3. (2 points)** Which one of the following four reactions is a *formation reaction*? Circle the correct answer.



*Look up the definition of a formation reaction in Chang or in your lecture notes: the compound is formed from its elements, and the elements must be as they naturally occur so e.g.  $\text{Cl}_2$  not  $\text{Cl}$  and  $\text{H}_2$  not  $\text{H}$ !*

**CHEM 101 Section L52 Quiz #6****1. (4 points)**

The specific heat (s) of copper (Cu) is 0.38 J/(g·K). Calculate the heat effect  $q$  when 10 g of copper is heated from 100 °C to 300 °C. Include the sign!

$$q = m \cdot s \cdot \Delta T \text{ for } \Delta T \text{ in } \Delta K = \Delta ^\circ C \quad q = 10 \times 0.38 \times (300 - 100) = +760 \text{ J}$$

You must include the units and sign in the answer!

**2. (4 points)**

The Molar Mass of Ca = 40.0 g/mol.

Calculate the enthalpy change  $\Delta H$  when 8.0 g Ca(s) reacts with excess oxygen. Include the sign!!

$$8.0 \text{ g Ca} = 8.0/40 = 0.2 \text{ mol} \rightarrow \Delta H = 0.2(\text{mol}) \times (-650)(\text{kJ/mol}) = -130 \text{ kJ}$$

Again, your answer must include both the sign and the units.

**3. (2 points)** Which one of the following reactions is a *formation reaction*? Circle the correct answer.



# Chem Fax Lab 6 Answers

**R Pring**



**Chem Fax Lab 6 Answers:**

## Reviewing **Chem Fax Lab 6 Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Chem Fax Lab 6 Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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