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CHEM 101 Worksheet, Chapter 6: Thermochemistry
 Multiple choice questions 1-10 (page 1); circle the correct answer(A-E)
 Show your work questions 11-13 (pages 2-3); give the complete answer in the space provided
 $R = 8.314 \text{ J}(\text{mol}\cdot\text{K}) = 0.08206 \text{ L}\cdot\text{atm}(\text{mol}\cdot\text{K})$ $1 \text{ cal} = 4.184 \text{ J}$ $0^\circ\text{C} = 273 \text{ K}$

- Calculate the heat effect q (in kJ) when 112 g of iron (Fe(s)) is heated from 20°C to 300°C . The specific heat of Fe(s) is $0.48 \text{ J/g}\cdot\text{K}$.
 A. -34.9 kJ B. $+34.9 \text{ kJ}$ C. -15.0 kJ D. -270 J E. $+15.0 \text{ kJ}$
- The dissolution reaction for ammonium chloride: $\text{NH}_4\text{Cl(s)} \rightarrow \text{NH}_4^+(\text{aq}) + \text{Cl}^-(\text{aq})$ is endothermic. When ammonium chloride is dissolved in water in an insulated (adiabatic) system, the temperature will:
 A. increase B. decrease C. stay the same
- Consider the reaction: $\text{CaCO}_3(\text{s}) \rightarrow \text{CaO}(\text{s}) + \text{CO}_2(\text{g})$ $\Delta H_{\text{rxn}} = +178 \text{ kJ}$ What is the enthalpy change when 20.0 kg CaO is formed?
 A. $+6.36 \times 10^3 \text{ kJ}$ B. $-6.36 \times 10^3 \text{ kJ}$ C. $+6.36 \times 10^4 \text{ J}$ D. 63.6 kJ E. -178 kJ
- Consider the reaction: $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$ $\Delta H_{\text{rxn}} = -114.6 \text{ kJ}$ As always, the ΔH is "for the reaction as written". Calculate the enthalpy change ΔH , when 12.6 g NO_2 is produced.
 A. -31.4 kJ B. $+31.4 \text{ kJ}$ C. -15.7 kJ D. $+15.7 \text{ kJ}$ E. none of these
- How much heat is associated with the reaction that produces 256.1 g of ammonia, NH_3 ?
 $\text{N}_2(\text{g}) + 3 \text{H}_2(\text{g}) \rightarrow 2 \text{NH}_3(\text{g})$ $\Delta H_{\text{rxn}} = -92.45 \text{ kJ}$
 A. 92.45 kJ of heat is released B. 696.1 kJ of heat is released C. 184.9 kJ of heat is absorbed
 D. 184.9 kJ of heat is released E. 92.45 kJ of heat is released
- Which two of the following are not formation reactions?
 1. $\frac{1}{2}\text{N}_2(\text{g}) + \frac{3}{2}\text{H}_2(\text{g}) \rightarrow \text{NH}_3(\text{g})$ 2. $\text{C}(\text{s}) + \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g})$ 3. $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2\text{SO}_3(\text{g})$
 4. $2\text{Fe}(\text{s}) + 1\frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{Fe}_2\text{O}_3(\text{s})$ 5. $\frac{1}{2}\text{H}_2(\text{g}) + \frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$
 A. 1 and 2 B. 3 and 4 C. 2 and 3 D. 4 and 5 E. 3 and 5
- Consider the thermochemical reaction equation: $2\text{CO}(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2\text{CO}_2(\text{g})$ $\Delta H = -198 \text{ kJ}$
 What is the enthalpy change for the reaction: $\text{CO}(\text{g}) \rightarrow \text{CO}(\text{g}) + \frac{1}{2}\text{O}_2(\text{g})$?
 A. $+198 \text{ kJ}$ B. -99 kJ C. $+99 \text{ kJ}$ D. $+396 \text{ kJ}$ E. -198 kJ
- Calculate the enthalpy change for the reaction: $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
 Standard enthalpy of formation values: $\Delta H_f^\circ(\text{KClO}_3) = -389 \text{ kJ/mol}$ $\Delta H_f^\circ(\text{KCl}) = -436 \text{ kJ/mol}$
 A. -94 kJ B. -47 kJ C. $+94 \text{ kJ}$ D. $+47 \text{ kJ}$
 E. Cannot be calculated because $\Delta H_f^\circ(\text{O}_2(\text{g}))$ is not given
- Given the following two thermochemical equations:
 1. $2\text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2\text{H}_2\text{O}(\text{l})$ $\Delta H = -572 \text{ kJ}$
 2. $\text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}_2(\text{l})$ $\Delta H = -188 \text{ kJ}$
 What is the enthalpy change for the reaction: $2\text{H}_2\text{O}_2(\text{l}) \rightarrow 2\text{H}_2\text{O}(\text{l}) + \text{O}_2(\text{g})$?
 A. -98 kJ B. $+98 \text{ kJ}$ C. $+196 \text{ kJ}$ D. -196 kJ E. -668 kJ
- Which of the following statements is correct for a combustion reaction in an adiabatic "bomb" calorimeter?
 A. the pressure is constant B. the temperature is constant C. the volume is constant
 D. the calorimeter constant's C units are $\text{J/g}\cdot\text{K}$ E. $\Delta T(\text{K}) = \Delta T(^\circ\text{C}) + 273.15$

Upon combustion, a compound containing only carbon and hydrogen produces 1.83 g CO_2 and 0.901 g H_2O . Find the empirical formula of the compound.



$$0.0416 \text{ mol CO}_2 \times \frac{1 \text{ mol C}}{1 \text{ mol CO}_2} = 0.0416 \text{ mol C}$$

$$0.0500 \text{ mol H}_2\text{O} \times \frac{2 \text{ mol H}}{1 \text{ mol H}_2\text{O}} = 0.100 \text{ mol H}$$

$\text{C}_1\text{H}_{2.4} \times 5 \rightarrow \text{C}_5\text{H}_{12}$
 The correct empirical formula is C_5H_{12} .

No other elements besides C and H, so proceed to next step.



Worksheet 8-1
Chemical Reaction Types
 (Elements are: 177-178, 181-186)

Write the chemical equation for each reaction. Balance the equation.

- $2\text{Al} + 3\text{Cl}_2 \rightarrow 2\text{AlCl}_3$ **B**
- $\text{Al}_2\text{SO}_4 + 3\text{Ca}(\text{OH})_2 \rightarrow 3\text{CaSO}_4 + 2\text{Al}(\text{OH})_3$ **CB**
- $2\text{Cu} + \text{S} \rightarrow 2\text{CuS}$ **C**
- $\text{Hg} + 2\text{AgNO}_3 \rightarrow \text{Hg}(\text{NO}_3)_2 + 2\text{Ag}$ **AB**
- $3\text{Ba}(\text{NO}_3)_2 + 2\text{Al}_2\text{PO}_4 + 6\text{Ba}_3(\text{PO}_4)_2 + 6\text{NO}_2$ **CB**
- $\text{Hg}_2(\text{NO}_3)_2 + \text{Hg}_2\text{Cl}_2 \rightarrow \text{Hg}_2\text{Cl}_2$ **B**
- $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$ **B**
- $2\text{Al} + 3\text{CuSO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{Cu}$ **CB**
- $2\text{PbO}_2 \rightarrow 2\text{PbO} + \text{O}_2$ **D**
- $2\text{C}_2\text{H}_6 + 7\text{O}_2 \rightarrow 4\text{CO}_2 + 6\text{H}_2\text{O}$ **C**

Complete the chemical equations for the following reactions.

- $\text{Hg} + \text{Cl}_2 \rightarrow \text{HgCl}_2$
- $\text{Ca} + \text{H}_2 \rightarrow \text{CaH}_2$
- $\text{Ba} + \text{Cl}_2 \rightarrow \text{BaCl}_2$
- $\text{Ba} + \text{Cl}_2 \rightarrow \text{BaCl}_2$
- $\text{Al} + \text{Cl}_2 \rightarrow \text{Al}_2\text{Cl}_6$

Write the complete and balanced chemical equations for the following reactions.

- $2\text{Zn}(\text{s}) + 4\text{pHCl}(\text{aq}) \rightarrow 2\text{H}_2(\text{g}) + 2\text{ZnCl}_2(\text{aq})$
- $\text{Zn}(\text{s}) + \text{CuCl}_2(\text{aq}) \rightarrow \text{Cu}(\text{s}) + \text{ZnCl}_2(\text{aq})$
- $\text{Al}(\text{s}) + \text{H}_2\text{SO}_4(\text{aq}) \rightarrow \text{H}_2(\text{g}) + \text{Al}_2(\text{SO}_4)_3(\text{aq})$
- $\text{Ca}(\text{s}) + \text{H}_2\text{O}(\text{l}) \rightarrow \text{H}_2(\text{g}) + \text{Ca}(\text{OH})_2(\text{aq})$
- $\text{Al}(\text{s}) + \text{CuSO}_4(\text{aq}) \rightarrow \text{Cu}(\text{s}) + \text{Al}_2(\text{SO}_4)_3(\text{aq})$

A Level Chemistry
 Lesson Element

Worksheet answers for balancing of equations

Balance the following equations.

- $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ (complete combustion)
 $\text{C}_2\text{H}_6 + 3\frac{1}{2}\text{O}_2 \rightarrow 2\text{CO}_2 + 3\text{H}_2\text{O}$
- $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$ (incomplete combustion)
 $2\text{C}_2\text{H}_6 + 7\text{O}_2 \rightarrow 4\text{CO} + 6\text{H}_2\text{O}$
- $\text{Mg} + \text{O}_2 \rightarrow \text{MgO}$
 $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$
- $\text{Mg} + \text{H}_2\text{O} \rightarrow \text{MgO} + \text{H}_2$
 $\text{Mg} + \text{H}_2\text{O} \rightarrow \text{MgO} + \text{H}_2$
- $3\text{Mg} + \text{H}_2\text{O} \rightarrow \text{Mg}_3\text{O}_2 + \text{H}_2$
 $\text{Mg} + 2\text{H}_2\text{O} \rightarrow \text{Mg}(\text{OH})_2 + \text{H}_2$
- $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
 $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
- $2\text{BaNO}_3 \rightarrow 2\text{BaO} + 4\text{NO}_2 + \text{O}_2$
 $2\text{BaNO}_3 \rightarrow 2\text{BaO} + 4\text{NO}_2 + \text{O}_2$

Balance the following equations for the complete and incomplete combustion of the following:
 C_2H_6 , C_2H_4 , C_2H_2

- $\text{C}_2\text{H}_6 + 3\frac{1}{2}\text{O}_2 \rightarrow 2\text{CO}_2 + 3\text{H}_2\text{O}$

Quiz & Worksheet - Types of Combustion Reactions

1. What must be present in order for combustion to occur?

- oxygen
- a catalyst
- carbon dioxide
- water

2. What is a characteristic of slow combustion reactions?

- They take place at low temperatures.
- They are explosive.
- They only occur inside the body.
- They take place at only high temperatures.

3. Cellular respiration is an example of which type of reaction?

- slow combustion
- spontaneous combustion
- explosive combustion
- single replacement

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10 best chemical reactions. Combustion reactions chem worksheet 10-5 answer key. What is a chemical reaction worksheet. What is the chemical reaction class 10. 10 examples of chemical reactions. 10 examples of combustion reaction. Combustion reactions chem worksheet 10-5.

As you have learned, there is not always a straightforward way to balance a reaction. We tend to just go back and forth, balancing elements on the left and the right, until it works. Combustion reactions are easier! Balance the elements in the following order: carbon, hydrogen then oxygen. Take pentane: $C_5H_{12} + O_2 \rightarrow CO_2 + H_2O$ Step 1 balance carbon: you see 5 carbons on the left so you know it will produce 5 CO_2 . $C_5H_{12} + O_2 \rightarrow 5CO_2 + H_2O$ Step 2 balance hydrogen: you see 12 hydrogens on the left so you know it will produce 6 H_2O . $C_5H_{12} + O_2 \rightarrow 5CO_2 + 6H_2O$ Step 3 balance oxygen: you see 10+6 or 16 oxygens on the right so you know it will require 8 O_2 . $C_5H_{12} + 8O_2 \rightarrow 5CO_2 + 6H_2O$ Wow! It is balanced! Actually, it doesn't always work out that easily. Sometimes you get an odd number of oxygens on the right which leads to a fraction in front of O_2 . You then have to multiply all of your coefficients by 2. (Vocabulary: The numbers subscripted we have been calling subscripts. These are the formulas of the molecules. The numbers in front of the formulas (8, 5 & 2), are called coefficients. These are the numbers we determine when balancing equations.) Your steps are: 1) balance carbon 2) balance hydrogen 3) balance oxygen 4) Multiply by 2 if you have a fraction. Lets try a harder problem, hexane: $C_6H_{14} + O_2 \rightarrow CO_2 + H_2O$ Step 1 balance carbon: you see 6 carbons on the left so you know it will produce 6 CO_2 . $C_6H_{14} + O_2 \rightarrow 6CO_2 + H_2O$ Step 2 balance hydrogen: you see 14 hydrogens on the left so you know it will produce 7 H_2O . $C_6H_{14} + O_2 \rightarrow 6CO_2 + 7H_2O$ (6x2=12 oxygens) (7x1=7 oxygens) Step 3 balance oxygen: you see 12+7 or 19 oxygens on the right so you know it will require 19/2 or eight and a half O_2 . $C_6H_{14} + 19/2 O_2 \rightarrow 6CO_2 + 7H_2O$ Step 4 To get rid of the fraction, we multiply all the coefficients by 2. $2C_6H_{14} + 19O_2 \rightarrow 12CO_2 + 14H_2O$ Ta da!! Wow, it sure seems like a lot of work but it is really easy. Try your hand at it at Dr Wong's website. We use cookies to improve security, personalize the user experience, enhance our marketing activities (including cooperating with our marketing partners) and for other business use. Click "here" to read our Cookie Policy. By clicking "Accept" you agree to the use of cookies. Read lessRead more Accept 2mg rating ★★★★★★★★★★★★★★★★★★ Get your online template and fill it in using progressive features. Enjoy smart fillable fields and interactivity. Follow the simple instructions below; Feel all the benefits of submitting and completing legal documents online. Using our platform submitting Combustion Reactions Chem Worksheet Answers only takes a few minutes. We make that possible by giving you access to our feature-rich editor capable of transforming/correcting a document's original textual content, adding unique boxes, and e-signing. Complete Combustion Reactions Chem Worksheet Answers in several clicks by simply following the recommendations below: Find the document template you require from the collection of legal forms. Click the Get form key to open it and begin editing. Fill out all the requested fields (they will be yellowish). 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