Calorimetry practice 2 worksheet answers

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## 11th Grade Math Worksheet

11th grade review.

1. Solve the equation. Leave your answer as a simplest form of fraction.

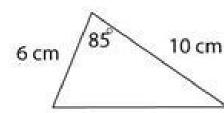
$$\frac{5}{2} = \frac{n}{6}$$

Name

2. 
$$\frac{x}{5} = \frac{1}{4}$$

3. 
$$\frac{y}{5+1} = \frac{10}{3}$$

4. Find the area of the figure. Round to the nearest tenth.



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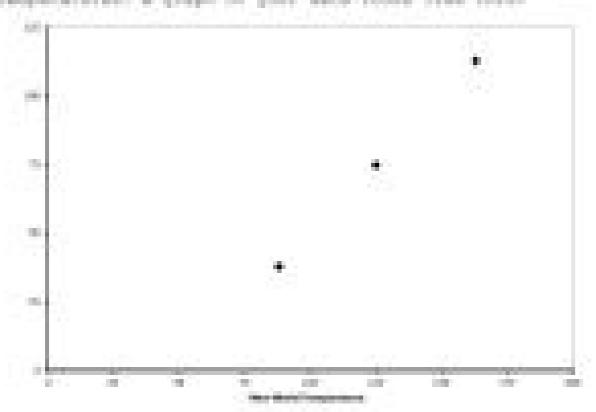
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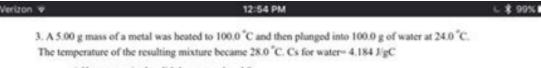
HERE MORCE, 1889, STORY.

At Juppose you wake up in a "new world". In the one world, you name some becausements of the pressure in a tank of gas at various temperatures. It graph of your data looks like this:



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a) How many joules did the water absorb? b) How many joules did the metal lose?

c) What is the specific heat of the metal?

d) What is the heat capacity of the 5.00 g sample?

4. Calculate the number of joules of heat released when 72.5 grams of water at 95.0 °C cools to 28.0 °C, specific heat capacity of water= 4.184 J/g C.

5. What is the specific heat of aluminum if the temperature of a 28.4 g sample of aluminum is increased by 8.1 °C when 207 J of heat is added?

6. A 13.5 g sample of gold is heated, then placed in a calorimeter containing 60.0 g of water. Temperature of water increases from 19.00 °C to 20.00 °C. The specific heat of gold is 0.130 J/g°C. What was the initial temperature of the gold metal sample?

7. A 5.00 g sample of acetylene undergoes complete combustion in an oxygen bomb calorimeter. The calorimeter has a heat capacity of 6.49 kJ/C. The maximum temperature increase is recorded

as 9.50 C. Find the molar heat of combustion for acetylene, C,H, (Ans: -3.21 × 10<sup>2</sup> kJ/mol)

8. Solve the following Hess's law problems.

a. Calculate the ΔH for the following reaction: b. Calculate the ΔH for the following reaction: Sn + 2Cl, à SnCl, You are given these two equations: Sn + Cl, à SnCl, ΔH = -325 kJ  $SnCl_2 + Cl_2 \hat{a} SnCl_4 \Delta H = -186 kJ$ 

NO + Oà NO, You are given these three equations: O, à 20 AH = +495 kJ 20, à 30,  $\Delta H = -427 \text{ kJ}$ NO + O, à NO, + O, AH = -199 kJ

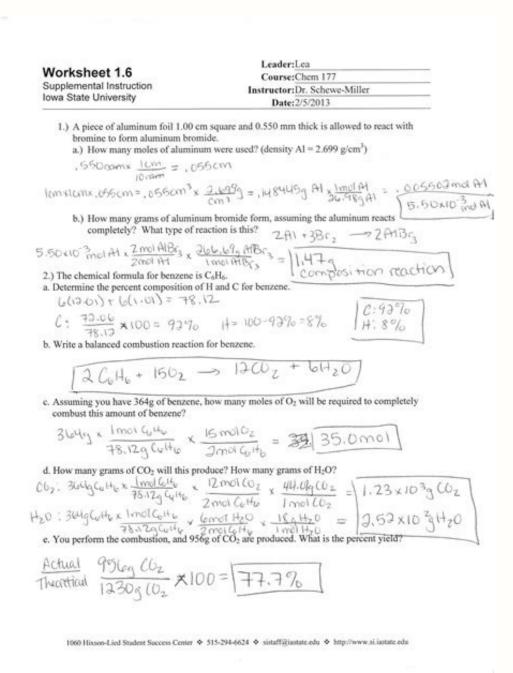
9. Use a standard enthalpies of formation table to determine the change in enthalpy for each of these

a) NaOH(s) + HCl(g) ----> NaCl(s) + H2O(g)

b) 2 CO(g) + O<sub>2</sub>(g) ---> 2 CO<sub>2</sub>(g)

10. What is the change in enthalpy when 9.75 g of aluminum reacts with excess ammonium nitrate (NH,NO,) according to the equation:

2AI + 3NH,NO, → 3N, + 6 H,O + AI,O, ΔH = -2030 kJ



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