we have

no home

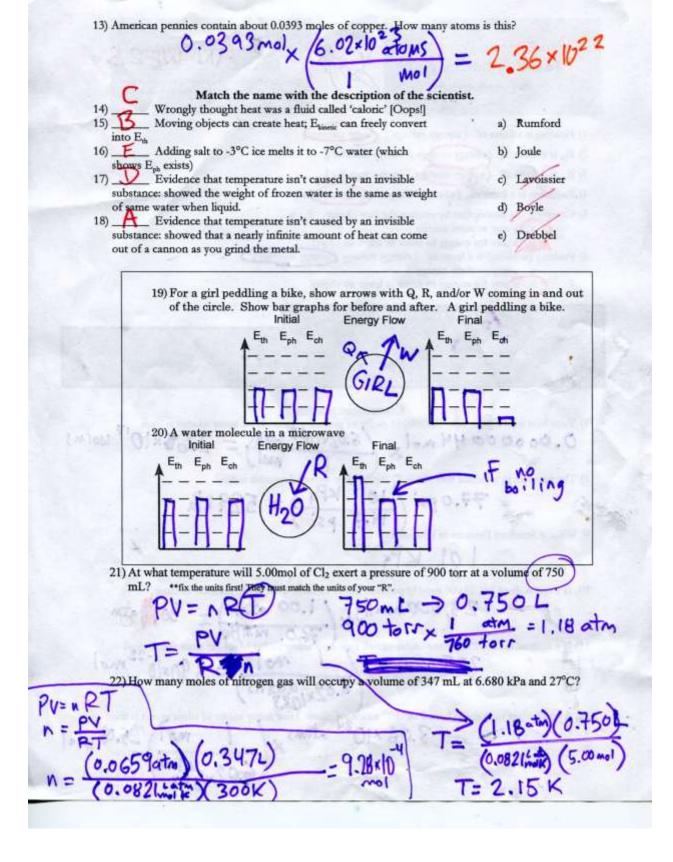
work

No Notebook today.

Check these Robin Williams answers:

energy storage & transfer Name Date East. H.S. CAEM 5+rv after school Tues, Thurs, or every day at lunch 1) Heating is a form of (energy storage / energy transfer) 2) Ea is a form of (energy storage / energy transfer) 3) Eth is a form of (energy storage / energy transfer) 4) Radiating is a form of (energy storage / energy transfer) 5) Complete the description by circling the best choice. E is ... a.) a way to store energy a way for energy to enter or leave an object 6) Pushing (working) is a form of (energy storage energy transfer) a. a way to store energy b. a way for energy to enter or leave an object You will always be given these numbers on tests and quizzes. 0 degrees C = 273 kelvins 760. torr = 760. mmHg = 1.00 atm = 101 kPa = 101,300 pascals = 14.7 p.s.i. R = 0.0821 liter-atm/mol-K (for PV=nRT problems, if you use this R value you must use these units) 1.00 mole of things is 6.02x1023 things: Conversions practice 7) Your best friend gives you 0.00000044 moles of gummi worms. How many worms is this?

O. OO OO OO 44 not 6.02×10<sup>23</sup> worm = 2.65×10 0.000000 44 mol 8) The pressure in a certain bike tire is 77.0 psr How many kilopascals is this? 9) What is Standard Pressure in kilopascals 101 KPG 10) If a scuba diver has 23,000 mmHg pressure in her air tank, what is the pressure in atm? 11) If a squirrel caches 235 acorns under an oak tr have? 12) A small silver coin could have 3.06x10<sup>24</sup> atoms of silver. How many moles of silver atoms is this? 3.06 × 10 atoms



## Emergency PV = nRT practice!

KEY

Name\_

1. What pressure is exerted by 0.693 moles of oxygen in a 5665mL vessel at 18°C?

Carbon monoxide, a poisonous gas, has a formula of CO. How many moles of carbon monoxide occupies a volume of 0.445 L at 0°C and 850.torr?

$$n = \frac{PV}{RT}$$

Can't use

tor 7

3. What volume will 4.54x10<sup>25</sup> atoms of helium occupy at 1.05 atm and 25°C?

use atoms,

4. What is the pressure of 25.00 moles of methane at 50.0°C if it occupies a volume of 60.0L?

5. A 75.0 gram sample of argon is confined in a 3.1 L vessel. What is the pressure at 115°C.

can't

SAY 75.0 moles

6. What pressure will be exerted by 25 moles of CO<sub>2</sub> at a temperature of 25°C and a volume of 500 mL?

Emergency PV = nRT practi	ice	ı
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Name Period

1. What pressure is exerted by 0.693 moles of oxygen in a 5665m

93 moles of oxygen in a 5665mL vessel at 18°C?
$$P = \frac{(.693 \text{ m})(0.0821 \text{ m})(291 \text{ K})}{(5.665 \text{ L})}$$

$$P = 2.92 \text{ atm}$$

2. Carbon monoxide, a poisonous gas, has a formula of CO. How many moles of carbon monoxide occupies a volume of 0.445 L at 0°C and 850.torr?

3. What volume will 4.54x10<sup>25</sup> atoms of helium occupy at 1.05 atm and 25°C2

1	1=	n	R	
V		-	P	=

V = 1760 L 4. What is the pressure of 25.00 moles of methane at 50.0°C if it occupies a volume of 60.0L?

5. A 75.0 gram sample of argon is confined in a 3.1 L vessel. What is the pressure at 115°C.

P = 
$$\frac{(75.0 \text{ mol})(0.082)}{(381 \text{ kg})}$$

P =  $\frac{7700 \text{ kg}}{(311 \text{ kg})}$ 

6. What pressure will be exerted by 25 moles of CO2 at a temperature of 25°C and a volume of