

SOB, Units 19, Form M-R

Name _____ Period _____

This is a Take Home Exam. You may use your Notes, PowerPoint, or Text on this exam but NO help from human beings!

You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

SHOW YOUR METHOD OF SOLUTION, THE Hup, Two, Three, Four.

Be sure that your answers look reasonable!

$$PV = nRT$$

Where

P is the pressure in kPa

V is the Volume in L

n is the number of moles

T is the temperature in K (C + 273°)

R is the gas constant: 8.31 L•kPa/mol•K

1. Find the pressure when 2.00 mol of Cl₂ are in a 15.0 L flask at 22.0°C.

.
. .
. .
. .

2. When 30.0 g of N₂ react to form NH₃, find how many liters of NH₃ are formed at STP.

.
. .
. .
. .
. .

When finished, please STAPLE this exam onto your papers and turn in on due date.