	HW01 - Fundamentals of Chemistry
The first ten que ten questions ar	covers Chapter 1 in Chembook from sections 1.1 through 1.11. estions are fundamentals review questions from chapters 1.1-1.7. The last re from 1.8-1.11.
• Compositi	deos for the challenge questions on this homework include:  on Stoichiometry Stoichiometry
	Stoichiometry Easy, Medium, Hard
	d use of significant figures allows us to communicate an implied accuracy of bunt without specifically writing out a plus or minus (±) value.
<ul><li>True</li><li>False</li></ul>	
2 2 points	
	a laboratory records the day's barometric pressure as 747.0 Torr (mm of significant figures are in her recorded number?
O 3 O infinite	
O 2	
3 3 points	
	r ½ cups of sugar. Which of the following best describes that sugar in classification? (check all that apply)
	eous mixture neous mixture
element compound	d
solid liquid	
gas	
4 5 points  There are a doze	en golf balls in a box. 24 of those boxes will fill a carton. 18 cartons are
many total golf l	er to make a palette. A golf retailer orders 5 palettes of golf balls. How balls did they just order?
Type your ans	wer
	al is weighed and the mass is found to be 139.5 grams. A large graduated by and has 25.6 mL of water in it. The chunk of metal is put into the
density of this m	der and the water line (meniscus) is displaced up to 37.9 mL. What is the netal?(answer in g/mL)
Type your ans	wer
6 5 points  Looking carefull	y at a sidewalk you realize that it is best described as
a homoge  a pure sub	eneous mixture
O a heterog	eneous mixture
O an elemer	
7 5 points What is the ator	mic mass (aka atomic weight) of potossium?
	mic mass (aka atomic weight) of potassium?  odic table for this - you will have one on the exam as well)
<ul><li>30.97</li><li>39.10</li></ul>	
O 22.99 O 40.08	
8 5 points	
The sequential o	counting numbers (1, 2, 3,) for the elements on the periodic table are of the following?
atomic nu     atomic ma	asses
O electron o	configurations bundance
9 2 points	
substances that concentration to	ve variable compositions based on the amounts of the different compose them. We communicate the amounts though the use of erms. We chemists have one (and only one) concentration term that we
True  False	to use as a standard.
5 points Which of the fo	llowing statements is true regarding the use of the mole in experimental
	s a packet of 6.022 x 10 <sup>23</sup> moles ng from molecules to moles is important to chemists so that they can use
table	ro-scale" units of grams with the atomic masses found on the periodic
atom has	the units g/mol much smaller than an atom or a molecule, so it is much easier to work
with in a l	aboratory setting
11 5 points What is the mol	ar mass of NH <sub>4</sub> Cl?
<ul><li>53.49 g/m</li><li>50.50 g/m</li></ul>	nol
53.49 g/m	nol
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m 5 points	nol nol
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m  12 5 points How many mole 45.5 mole	nol nol es are in 1.46 kilograms of sulfur (S)?
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m  12 5 points How many mole 45.5 mole 0.0455 mo 0.46.72 mo	nol nol es are in 1.46 kilograms of sulfur (S)? es les
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m  12 5 points How many mole 45.5 mole 0.0455 mo	nol nol es are in 1.46 kilograms of sulfur (S)? es les les
53.49 g/m 50.50 g/m 17.11 g/m 49.46 g/m  12 5 points  How many mole 45.5 mole 0.0455 mo 0.46.72 mo 0.91.0 mole 0.0910 mo	nol nol es are in 1.46 kilograms of sulfur (S)? es les les les
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m  12 5 points  How many mole 0 45.5 mole 0 .0455 mo 0 46.72 mo 0 91.0 mole 0 .0910 mo  13 5 points  How many mole 0 4.45 mol	nol nol es are in 1.46 kilograms of sulfur (S)? es les les es are in 142.5 g methanol, CH <sub>3</sub> OH?
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m  12 5 points  How many mole 0,0455 mo 0,0455 mo 0,46.72 mo 0,91.0 mole 0,0910 mo  13 5 points  How many mole 0,4566 mol 0,458 mol	es are in 1.46 kilograms of sulfur (S)? es les les es are in 142.5 g methanol, CH <sub>3</sub> OH?
53.49 g/m 50.50 g/m 7.11 g/m 49.46 g/m  12 5 points  How many mole 45.5 mole 0.0455 mo 0.46.72 mo 0.91.0 mole 0.0910 mo  13 5 points  How many mole 0.445 mol 0.4566 mol	es are in 1.46 kilograms of sulfur (S)? es les les es are in 142.5 g methanol, CH <sub>3</sub> OH?
53.49 g/m 50.50 g/m 750.50 g/m 77.11 g/m 49.46 g/m 49.46 g/m  12 5 points  How many mole 0.0455 mo 0.46.72 mo 0.91.0 mole 0.0910 mo  13 5 points  How many mole 0.445 mol 0.4566 mol 0.458 mol 0.458 mol 0.88.55 mo  14 5 points  Calculate the ma	nol nol es are in 1.46 kilograms of sulfur (S)? es les les les es are in 142.5 g methanol, CH <sub>3</sub> OH?
53.49 g/m 50.50 g/m 750.50 g/m 77.11 g/m 49.46 g/m 49.46 g/m  12 5 points  How many mole 45.5 mole 0.0455 mo 0.46.72 mo 0.91.0 mole 0.0910 mo  13 5 points  How many mole 0.4.45 mol 0.4566 mol 0.458 mol 0.88.55 mo  14 5 points	ass of 14.4 moles HgO. Answer in kilograms.
53.49 g/m 50.50 g/m 750.50 g/m 77.11 g/m 49.46 g/m 49.46 g/m 45.5 mole 0.45.5 mole 0.0455 mo 0.46.72 mo 0.91.0 mole 0.0910 mo 13 5 points How many mole 0.4.45 mol 0.4566 mol 0.458 mol	nol nol es are in 1.46 kilograms of sulfur (S)? es les les es les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I ass of 14.4 moles HgO. Answer in kilograms1 kg -2 kg
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53.49 g/m 50.50 g/m 750.50 g/m 77.11 g/m 49.46 g/m 49.46 g/m  12	nol nol es are in 1.46 kilograms of sulfur (S)? es les les es les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I ass of 14.4 moles HgO. Answer in kilograms1 kg -2 kg
53.49 g/m 50.50 g/m 750.50 g/m 77.11 g/m 49.46 g/m 49.46 g/m 12 5 points  How many mole 0.45.5 mole 0.0455 mo 0.46.72 mo 0.91.0 mole 0.0910 mo 13 5 points  How many mole 0.445 mol 0.4566 mol 0.458 mol 0.458 mol 0.458 mol 0.458 mol 0.312 kg 0.1.50 x 100 0.312 kg 0.1.50 x 100 0.312 kg 0.1.44 x 100 0.230 kg 0.15.0 kg 0.2.89 kg	nol nol es are in 1.46 kilograms of sulfur (S)? es les les es les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I ass of 14.4 moles HgO. Answer in kilograms1 kg -2 kg
53.49 g/m   50.50 g/m   7.11 g/m   49.46 g/m   49.46 g/m   49.46 g/m   60.455 mo   60.455 mo   60.455 mo   60.4566 mol   60.458 mol	es are in 1.46 kilograms of sulfur (S)?  es are in 1.46 kilograms of sulfur (S)?  es les les les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I  ass of 14.4 moles HgO. Answer in kilograms.  1 kg 2 kg  2 kg  es are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
12   5 points   How many mole	es are in 1.46 kilograms of sulfur (S)?  es are in 1.46 kilograms of sulfur (S)?  es les les les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I  ass of 14.4 moles HgO. Answer in kilograms.  1 kg 2 kg  2 kg  es are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
S3.49 g/m   S0.50 g/m   S0.50 g/m   A9.46 g/m   A9.45 mole   A6.72 mole   A6.72 mole   A9.45 mole	es are in 1.46 kilograms of sulfur (S)?  es are in 1.46 kilograms of sulfur (S)?  es les les les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I  ass of 14.4 moles HgO. Answer in kilograms.  1 kg 2 kg  2 kg  es are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
S3.49 g/m   50.50 g/m   17.11 g/m   49.46 g/m   49.46 g/m   12   5 points   45.5 mole   6   6   6   6   6   6   6   6   6	es are in 1.46 kilograms of sulfur (S)?  es are in 1.46 kilograms of sulfur (S)?  es les les les es are in 142.5 g methanol, CH <sub>3</sub> OH?  I  ass of 14.4 moles HgO. Answer in kilograms.  1 kg 2 kg  2 kg  es are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
Salay g/m   Solator g/m   So	as are in 1.46 kilograms of sulfur (S)?  Es are in 1.46 kilograms of sulfur (S)?  Es are in 142.5 g methanol, CH <sub>3</sub> OH?  I ass of 14.4 moles HgO. Answer in kilograms.  1 kg  2 kg  Es are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
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	as are in 1.46 kilograms of sulfur (S)?  Es are in 1.46 kilograms of sulfur (S)?  Es are in 142.5 g methanol, CH <sub>3</sub> OH?  I ass of 14.4 moles HgO. Answer in kilograms.  1 kg  2 kg  Es are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
	ass are in 1.46 kilograms of sulfur (S)?  Isseles  Issele
S3.49 g/m   S0.50 g/m   S0.50 g/m   T7.11 g/m   A9.46 g/m   A9.40 g/m   A9.4	ass are in 1.46 kilograms of sulfur (\$)?  Estate in 1.46 kilograms of sulfur (\$)?  Estate in 1.42.5 g methanol, CH <sub>3</sub> OH?  I ass of 14.4 moles HgO. Answer in kilograms.  I kg  Estate in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  I unknown metal (M) weighs 109.35 g. What is the identity of the metal?
S3.49 g/m   S50.50 g/m   O	and
	and
S3.49 g/m   S50.50 g/m   O	ass are in 1.46 kilograms of sulfur (S)?  Isses are in 1.46 kilograms of sulfur (S)?  Isses are in 1.42.5 g methanol, CH <sub>3</sub> OH?  Isses are in 1.42.5 g methanol, CH <sub>3</sub> OH?  Isses are in 1.44 moles HgO. Answer in kilograms.  In kg  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  Isses are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L
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Salay g/m   Solation   Solation g/m   Sola	and
	and
	as are in 1.46 kilograms of sulfur (S)?  It is as are in 1.42.5 g methanol, CH <sub>2</sub> OH?  It is as are in 1.42.5 g methanol, CH <sub>2</sub> OH?  It is as are in 1.42.5 g methanol, CH <sub>2</sub> OH?  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as are in 1.85 L H <sub>2</sub> O? The density of water = 1 kg/ L  It is as
12   5 points	ass are in 1.46 kilograms of sulfur (S)?  Is ass of 14.4 moles HgO. Answer in kilograms.  Is ass of 14.4 moles HgO. Answer in
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	as are in 1.46 kilograms of sulfur (\$)? is less are in 1.42.5 g methanol, CH <sub>2</sub> OH?  If as of 14.4 moles HgO. Answer in kilograms.  I kg  2 kg  2 kg  2 kg  unknown metal (M) weighs 109.35 g. What is the identity of the metal?  If unknown metal (M) weighs 109.35 g. What is the identity of the metal?  where the coefficient is 1.  I wild balanced combustion reaction: $2H_2(g) + Q_2(g) \rightarrow CO_2(g) + H_2O(g)$ welfor the coefficient as 1.  I B react to form C in the following balanced generic reaction: $A + 2B \rightarrow C$ sperimental set-up, reactant B is found to be the limiting reagent. Which must be run out simple for the coefficient as 1.  I B react to form C in the following balanced generic reaction: $A + 2B \rightarrow C$ sperimental set-up, reactant B is found to be the limiting reagent. Which must be run out while there is stitll eccess A remaining  A and B will always be the limiting reagent no matter how much of each out begins with  It least twice the amount of reactant B than A in the beginning of the
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22 6 points

5.00 g

142 g

2.50 g

355 g

710 g

Calculate the mass of  $Na_2SO_4$  formed when 5.00 moles of  $H_2SO_4$  react with 5.00 moles

NaOH in the following balanced chemical equation. Answer in grams.

 $H_2SO_4 + 2NaOH \longrightarrow Na_2SO_4 + 2H_2O$