

UNIT ONE TEST REVIEW **CHEMISTRY 11**

the major topics include: Your Unit 1 test will cover all the material that we have covered until this point,

- Safety (The WHMIS Symbols)
- Significant Digits Scientific Notation
- SI Base Units
- Multiples of Base Units (eg. Kilo, centi, milli and micro)
- Unit Conversions: single, multiple and metric
- Density Calculations
- Chemical vs. Physical properties + changes
- Matter- definitions, the matter tree, and separating matter

The test questions that you recieve will be based on those given in this worksheet. As well as additional ones. This worksheet will be collected at the start of class on the test day.

Workplace Fazaratous materials information system

For each of the following, write down the appropriate WHMIS symbol and provide affecting provide affecting that would have this symbol on its label.



matrials

Matcas

In the space below, write one rule for significant figures and give an example of that rule.

When the rounding tool is five what are the two rules?

Write either the abbreviation or the name of each of the following measurements.

ABBREVATION とと Mol ě mole mcrometer second NAME

How many sig figs are in each of the following?

ment Liter

07459	1200	1052.0	000026	
1	12	S	2	

6.0	602000000000000000000000
20 X 20 -4	0.000256
2730	2730

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When multiplying or dividing two numbers, the answer is rounded off to the __ number of sig figs used in the calculation.

Express each of the following in ordinary

3	101 × 10-6
34565000000	3.4565 x 10 ¹⁰
900 000	2 × 10°
0.00653	6.53 × 10°

Perform the indicated operations, answers in exponential form.

10 ⁻¹ × 10 ¹⁰	10-2 × 10°	10 ³ × 10 ⁶
109	Q	109
10. 10.	107 / 103	10° / 10°
07	ر ا	106

6

Perform the indicated operations. Convert all answers to scientific notation, showing the correct number of significant digits

 $(4.75 \times 10^6) + (5.6 \times 10^7)$ (4.5×10^{8}) (1.5 × 10⁷) = (3.3×10^{-7}) (5.5×10^{-7}) = $(5.8 \times 10^{4})(3.6 \times 10^{4}) =$ Q 18 × 10-13 Q. 3 710-40

10. Using your knowledge of unitary rates, convert the following measurements.

2.56×10 kg 1.6 × 10 cm - Sw 7.6×104 mg Ja. Ste xIods

16

11. If 3000ml of copper has a mass of 4.389 kg, what is the volume occupied by 100.0 kg of copper?

#ml = 100.0 K x 7.389 K 1 6,8 x10 m J W LOIX L

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12. What is the cost of 7 dozen eggs if the eggs sell for \$2.59/dozen?

1 - 7 doix -\$2.59 #18.13

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BLOCK:

زن 13. The gas tank on my ski-doo holds 5.9 liters. If one liter is equal to 0.264

gallons in the USA and gas is \$1.24 /gallon. How much would it cost me to fill my tank in the states?

115 = 8.9 L x 0.26451 x \$1.24

15. The following is a comparison of kilometers driven to the amount of gas pumped into the tank

a. Are the two quantities proportional? Explain. 360 24 X Gas pumped (L) 4 360/60 = 6Km/ (2414 = 6Km/

Yes Their all 72/12= 6km/1

Calculate the unitary rate that can be derived from this set of data. 72 proportioned

6 Km/11

16. What is the formula for density?

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17. Complete the table given below.

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VXQ =M

Dッスナン

30/ml	60ml	200
معاسر	5ml	459
DENSITY	VOLUME"	MASS

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18. A solution has a density of 2.5 g/ml. How many grams are needed to obtain

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カメく

ù (a) 6ml of solution () 10 ml of solution

x 10mc = 259 \$1305 x but = 155 =/24