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Worksheet 2

Molarity And
Dilution Problems

Solutions Worksheet 2 Molarity And Dilution Problems

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Solutions Worksheet 2 Molarity And

Molarity Worksheet # 2

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identifiers What
Molarity And Dilution Problems
What does molarity mean?

Number of moles of
solute. 1 liter solution.

What is the molarity of
a solution that contains
4.53 moles of lithium
nitrate in 2.85 liters of
solution? 4.53 mol

$\text{LiNO}_3 = 1.59 \text{ M LiNO}_3$
3. 2.85 L soln

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Molarity Problems

Worksheet $M=nV$ $n= \#$

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Molarity And Dilution Problems

moles V must be in liters (change if necessary)

1. What is the molarity of a 0.30 liter solution containing 0.50 moles of NaCl ?
2. Calculate the molarity of 0.289 moles of FeCl_3 dissolved in 120 ml of solution?
3. If a 0.075 liter solution c...

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6.00 liters of solution?
= 0.500 M NaCl

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Molarity And Molality Problems

What is the molarity of KCl solution containing 1.70 moles of KCl in 3.00 liters of solution?

3.00 L of Solution 3.

What is the molarity of a solution containing 4.20 moles of sulfuric acid in 300.0 mL of solution? Suppose we want to know the number of moles when given the volume and molarity.

Molar Concentration of Solutions

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Solutions Worksheet
#2. (Molarity, Dilutions,
Percent Solutions,
Molality Problems)
Molarity. Tell how you
would prepare a 500.
mL of 0.50 M
ammonium carbonate
solution. Include all
necessary equipment
and amount of
chemical (in grams).

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#2 - Georgetown
High School**

Molarity Problems.

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Molarity And Molality Problems

Molarity Problems -
Displaying top 8
worksheets found for
this concept.. Some of
the worksheets for this
concept are Molarity
practice problems,
Molarity problems
work, Work molarity
name, Molarity
molarity, Molality work
13, Molarity molality
osmolality osmolarity
work and key, Molarity
work w 331,
Concentration work w
328.

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Molarity Problems

**Worksheets - Kiddy
Math**

Solutions Worksheet
#2: Molarity and
Dilution Problems 1)
Describe how you
would prepare 5.00
liters of a 6.00M
solution of potassium
hydroxide. SL 2) How
would you prepare
100.0ml of AM $MgSO_4$
from a stock solution of
2.0 $MgSO_4$? i 00 3) If
1.001- of water is

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Molarity And
Dilution Problems

added to 3.00 L of a
6.00M solution of what
is the new molarity of
the acid solution?

SharpSchool

Chemistry: Molarity of
Solutions Directions:

Solve each of the
following problems.

Show your work and
include units for full
credit.

1. What mass of
the following chemicals
is needed to make the
solutions indicated? a.

1.0 liter of a 1.0 M

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mercury (II) chloride
(HgCl_2) solution. b. 2.0
liters of a 1.5 M sodium
nitrate (NaNO_3)
solution ...

Molarity of Solutions - teachnlearnchem.c om

7. How many liters of
solution can be
produced from 2.5
moles of solute if a 2.0
M solution is needed?
 $2.0 \text{ M} = 2.5 \text{ moles}$
liters of solution
liters of solution = 1.25 L =

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Molarity And Dilution Problems

1.3 L 8. What would be the concentration of a solution formed when 1.00 g of NaCl are dissolved in water to make 100.0 mL of solution? ? mol = 1.00 g NaCl \times 1 mol NaCl / 58.5 g ...

Molarity: Molarity = 1. 2.

Molarity Worksheet W
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Molarity And Dilution Problems

is the molarity of the following solutions given that: 1) 1.0 moles of potassium fluoride is dissolved to make 0.10 L of solution. 2) 1.0 grams of potassium fluoride is dissolved to make 0.10 L of solution.

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**Acids and Bases 2
(Worksheet) -
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Key+. 1)++23.5g+of+
NaCl+isdissolvedineno
ughwatertomake.683L
ofsolution. + a)+What
+is+themolarity)(M)+o
f+the+solution?+++ M
olar+mass+of+NaCl+
=58.44g/mole+
Moles+of+NaCl:+ 23.5
g+NaCl+++1moleNaCl
+++ =+++ .402moles+N

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Molarity And Dilution Problems

$8.44\text{g NaCl} + \text{molar mass NaCl} = 0.145\text{ moles NaCl}$
 $0.145\text{ moles NaCl} / 0.250\text{ L} = 0.589\text{ M NaCl}$
 $0.589\text{ M NaCl} \times 0.683\text{ L} = 0.402\text{ moles NaCl}$
 $0.402\text{ moles NaCl} / 0.683\text{ L} = 0.589\text{ M NaCl}$

b) How many moles of NaCl are contained in 0.0100 L of the above NaCl solution?
 $0.589\text{ M NaCl} \times 0.0100\text{ L} = 0.00589\text{ moles NaCl}$

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Molarity And Dilution Problems **Calculations+for+So lutions+Worksheet+ and+Key+**

Where To Download
Solutions Worksheet 2
Molarity And Dilution
Problems Answer Key
dissolved to make 0.10
L of solution. 2) 1.0
grams of potassium
fluoride is dissolved to
make 0.10 L of
solution. Molarity
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Molarity And
» Unit Seven -

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and Homework
Handouts.

Solutions Worksheet 2 Molarity And Dilution Problems ...

What is the molarity of
an ammonium
carbonate solution if
the concentration of
ammonium ions is 2 M?

What is the
concentration of
carbonate ions and
what is the total

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concentration of solute particles? $[CO_3^{2-}] = 1M$ $[particles] = 3 M$. A solution was made by dissolving 800.0 g of NaOH in 2.00 L of water.

Chapter 13 worksheet #1

Water was added to 25 mL of a stock solution of 5.0 M HBr until the total volume of the solution was 2.5 L. What is the molarity of the new solution? We

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are given the following:

$$c_1 = 5.0 \text{ M}, V_1 = 0.025 \text{ L}, V_2 = 2.50 \text{ L}.$$

We are asked to find c_2 , which is the molarity of the diluted solution.

$$(5.0 \text{ M})(0.025 \text{ L}) = c_2 (2.50 \text{ L})$$

Molarity | Introduction to Chemistry

Molarity Problems

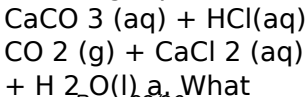
Worksheet $M = \frac{n}{V}$ -
 $n = \# \text{ moles}$ $V = \bar{V}$ must
be in liters (change if
necessary) - Use M or

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mol/L as unit for
molarity 1. What is the
molarity of a 0.30 liter
solution containing
0.50 moles of NaCl?

Molarity Problems Worksheet - Mrs Getson's Blog

2. Calcium carbonate
("limestone") reacts
with hydrochloric acid
according to the
following equation:



a. What

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mass of calcium
carbonate is needed to

make 1.2 liters of a 1.7
M calcium carbonate
solution? b. What
volume of 3.0 M
hydrochloric acid is
needed to completely
react

Molarity and Stoichiometry - Gateway High School

Dilutions Worksheet -
Solutions 1) If 45 mL of
water are added to 250

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Molarity And Dilution Problems

mL of a 0.75 M K_2SO_4 solution, what will the molarity of the diluted solution be?

$$(0.75 \text{ M})(250 \text{ mL}) = M_2 (295 \text{ mL})$$
$$M_2 = (0.75 \text{ M})(250 \text{ mL}) / 295 \text{ mL} = 0.64 \text{ M}$$

(295 mL) 2) If water is added to 175 mL of a 0.45 M KOH solution until the volume is 250 mL, what

**Dilutions Worksheet
W 329 - Everett
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Solutions to Worksheet

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#6 1. $2 \times 3.14 \times 4.5$ in

$= 28.26$ in 2. $3.14 \times$

18 in $= 56.52$ in

Solutions to Worksheet

#7 1. 4 yd \times 7 yd $= 28$

yd² 2. This is a 3-step
problem. Separate the
shape into 2

rectangles, then solve.

Step 1: (Area of 1st
rectangle) 7 ft \times 11 ft $=$

77 ft² Step 2: (Area ...

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