TUGAS ZOOM

NAMA :

ABSEN :

1. Berapa gram $CaCl_2$ yang diperlukan untuk membuat 500 mL larutan $CaCl_2$ 0,2 M?(Ar Ca= 40, Ar Cl=35,5)

   A. 5,55 gram
   B. 11,1 gram
   C. 22,2 gram
   D. 55,5 gram

   Diketahui :

   Volume = ... mL=..... L

   Molaritas (M) = ... M

   Mr $CaCl_2$= .....

   Ditanya =.....?

   Jawab :

   Cara 1

   M= n/V

   m=Mx V x Mr

   massa= ..... M x .....Liter x .....

   Massa= .....gram

   Cara 2

   M= $\frac{gram}{Mr}$x $\frac{1000}{mL}$

   .....M = $\frac{.....gram}{.....}$x $\frac{1000}{.....mL}$

   gram = $\frac{.....M}{.....}$x .....

   gram= .....gram

2. Berapa gram Na_2CO_3 yang diperlukan untuk membuat 250 mL larutan Na_2CO_3 0,1 M? (Ar Na=23, Ar C=12, Ar O =16)

   A. 1,325 gram
   B. 2,65 gram
   C. 5,3 gram

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D. 10,6 gram

Diketahui :

Volume = ... mL=..... L

Molaritas (M) = ... M

Mr $CaCl_2$= .....

Ditanya =.....?

Jawab :

Cara 1

M= n/V

m=Mx V x Mr

massa= ..... M x .....Liter x .....

Massa= .....gram

Cara 2

M= $\frac{gram}{Mr}$x $\frac{1000}{mL}$

.....M = $\frac{.....gram}{.....}$x $\frac{1000}{.....mL}$

gram = $\frac{.....M}{.....}$x .....

gram= .....gram

3. Berapa gram KOH yang diperlukan untuk membuat 100 mL larutan KOH 0,5 M? (Ar K=39, Ar 16, Ar H =1)

A. 1,4 gram
B. 2,8 gram
C. 5,6 gram
D. 28 gram

Diketahui :

Volume = ... mL=..... L

Molaritas (M) = ... M

Mr $CaCl_2$= .....

Ditanya =.....?

Jawab :

Cara 1

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M= n/V

m=Mx V x Mr

massa= ..... M x .....Liter x .....

Massa= .....gram

Cara 2

M= $\frac{gram}{Mr}$x $\frac{1000}{mL}$

.....M = $\frac{.....gram}{.....}$x $\frac{1000}{.....mL}$

gram = $\frac{.....M}{.....}$x .....

gram= .....gram

4. Berapa gram urea ($CO(NH_2)_2$) yang diperlukan untuk membuat 500 mL larutan urea 0,2 M? (Ar C=12, Ar O =16, Ar N=14, Ar H =1)

A. 3 gram
B. 6 gram
C. 12 gram
D. 30 gram

Diketahui :

Volume = ... mL=..... L

Molaritas (M) = ... M

Mr $CaCl_2$= .....

Ditanya =.....?

Jawab :

Cara 1

M= n/V

m=Mx V x Mr

massa= ..... M x .....Liter x .....

Massa= .....gram

Cara 2

M= $\frac{gram}{Mr}$x $\frac{1000}{mL}$

.....M = $\frac{.....gram}{.....}$x $\frac{1000}{.....mL}$

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gram = $\frac{\ldots\ldots M}{\ldots\ldots}$x .....

gram= .....gram

5. Berapa gram glukosa ($C_6H_{12}O_6$) yang diperlukan untuk membuat 250 mL larutan glukosa 0,4 M? (Ar C=12, Ar H =1, Ar O =16)

A. 9 gram
B. 18 gram
C. 36 gram
D. 45 gram

Diketahui :

Volume = ... mL=..... L

Molaritas (M) = ... M

Mr $CaCl_2$= .....

Ditanya =.....?

Jawab :

Cara 1

M= n/V

m=Mx V x Mr

massa= ..... M x .....Liter x .....

Massa= .....gram

Cara 2

M= $\frac{gram}{Mr}$x $\frac{1000}{mL}$

.....M = $\frac{\ldots\ldots gram}{\ldots\ldots}$x $\frac{1000}{\ldots\ldots mL}$

gram = $\frac{\ldots\ldots M}{\ldots\ldots}$x .....

gram= .....gram

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