

Chemistry First Semester Review

Key

Introduction to Chemistry

Terms to Define

- qualitative data
- quantitative data
- independent variable
- dependent variable
- control
- constants
- scientific theory
- scientific law
- standard of measurement
- base unit
- derived unit
- accuracy
- precision

Identify the following examples of data as qualitative (QL) or quantitative (QT).

- QL 1. the solution is blue
QL 2. the metal has luster
QN 3. the mass is 105 g
QN 4. the temperature is 12 °C
QN 5. the length is 5.0 mm
QL 6. the liquid conducts electricity

Identify the SI base unit used for each of the following:

time	s
length	m
mass	kg
temperature	K
amount of a substance	mol

Metric Conversions

convert	to	
0.0032 mg	g	3.2×10^{-6}
2390 km	m	2.39×10^6
0.009 g	mg	9×10^4
0.033 Mg	cg	3.3×10^4
0.00032 s	ms	0.32
3.42 µg	pg	3.42×10^6

Temperature Conversions

Convert the following:

- 1) $362\text{ °C} = 635\text{ K}$
 2) $25\text{ °C} = 298\text{ K}$
 3) $300\text{ K} = 27\text{ °C}$
 4) $0\text{ K} = -273\text{ °C}$
 5) $25\text{ K} = -248\text{ °C}$

Experimental Design

You design an experiment to determine which household cleaner best prevents the growth of bacteria. You gather five different household cleaners and some petri dishes with bacteria samples. Determine each of the following for your experiment:

independent variable: type of cleaner
 dependent variable: how well cleaners control bacteria
 control: petri dish w/ bacteria, no cleaner
 constants: temp, strain of bacteria, sunlight, etc

Scientific Notation

Convert the following to scientific or standard notation:

- 1) $8,320,000 = 8.32 \times 10^6$
 2) $0.000937 = 9.37 \times 10^{-4}$
 3) $7,500,000,000 = 7.5 \times 10^9$
 4) $5.22 \times 10^4 = 52,200$
 5) $9.214 \times 10^8 = 921,400,000$
 6) $8.5 \times 10^{-8} = 0.00000085$

Scientific Notation

Perform the following calculations:

- 1) $(2.1 \times 10^5) \times (8.33 \times 10^4) = 1.7 \times 10^{10}$
 2) $(7.50 \times 10^{30}) / (4.212 \times 10^{30}) = 1.78 \times 10^{-3}$
 3) $(4.4 \times 10^6) + (7.2 \times 10^6) = 5.1 \times 10^6$
 4) $(5.29 \times 10^9) - (6.04 \times 10^9) = -5.51 \times 10^9$

Mcps Chemistry Semester Review Guide Answers

Robert R. Redfield



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 $n2 \times \text{ratio } n1 = 15 \times 50 = 750\text{rpm}$ berarti putaran motor listrik 1500rpm harus kita turunkan dengan menggunakan
perbandingan pulley agar didapat menjadi 750rpm putaran motor listrik 1500rpm

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kecepatan rpm dan daya power pada sebuah elektro motor serta bagaimana hubungan antara torsi kecepatan dan daya
rumus menghitung rpm motor listrik $n = \frac{f \times 120}{p}$ $f = \frac{n \times p}{120}$ 50hz $n = \frac{50 \times 4}{120}$

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web may 7 2020 pernyataan ini dapat dibuktikan dengan rumus menghitung rpm dibawah ini $n = \frac{f \times 120}{p}$ rpm rotation per
minute jumlah putaran dalam satu menit f frekuensi hz p pole jumlah kutub magnet jika sebuah motor listrik memiliki 4
kutub magnet pole dan frekuensi sebesar 50hz nilai frekuensi ini adalah rata rata frekuensi

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torque torsi kecepatan rpm dan daya power pada sebuah elektro motor serta bagaimana hubungan antara torsi kecepatan
dan daya kita dapat melihat spesifikasi pada name plate sebuah elektro motor yang

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web lain hal pada putaran rendah motor listrik bisa menghasilkan torsi besar dan bekerja dengan efisiensi tinggi karena

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web torsi pada motor dapat ditentukan dengan rumus umum yaitu $t = \frac{P}{\omega}$ atau $t = \frac{P}{2\pi n}$ 60 t torsi motor n m p daya motor w att n
jumlah putaran motor rp m terdapat 3 macam daya yaitu daya celah udara p12 daya rotor p2 dan daya keluaran po oleh
karena itu torsi pada motor induksi 3 fasa dibedakan menjadi torsi

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web rumus di atas digunakan untuk mencari daya input suatu motor listrik sedangkan daya output motor listrik dapat dicari
dengan menggunakan rumus yaitu $P_{out} = 0.1047 \cdot n \cdot m \cdot \omega$ 2 dimana P_{out} daya output motor watt n kecepatan rpm m torsi n m
faktor daya cos

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mengubah frekuensi dengan menggunakan inverter penelitian ini bertujuan mengetahui pengaruh perubahan frekuensi
terhadap kecepatan putaran motor induksi 3 fasa menggunakan inverter hasil penelitian ini adalah perubahan

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efisiensi motor arus torsi motor 1 dan 3 fasa 10 rumus motor listrik mulai daya torsi slip efisiensi cara ilmu

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web dan menariknya kita juga dapat memperhitungkan putaran rotor per menit rpm pada sebuah dinamo motor listrik
dengan menggunakan rumus berikut ini $\text{rpm} = f \times 120$ p keterangan

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apabila kamu hendak mengetahui cara menghitung torsi gearbox seperti belt conveyor dengan putaran 15 rpm dengan listrik
1500 rpm dan gearbox yang ada memiliki ratio 50 maka torsi nya dapat dihitung dengan rumus n_2

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dijelaskan dalam rumus menghitung putaran motor atau $\text{rpm} = \frac{120 \cdot f}{p}$ dimana n jumlah putaran dalam satuan rpm f
frekuensi dalam satuan hz p jumlah kutub jumlah kutub motor telah ditentukan oleh pabrikan saat dibuat

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dari putaran 0 rpm sampai puncak yaitu 5640rpm hasil dari pengambilan respon berupa

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web dalam dunia industri yang menggunakan motor listrik umumnya menggunakan motor induksi inverter berfungsi untuk mengatur kecepatan motor tersebut kecepatan motor induksi ditentukan oleh frekuensi tegangan dan jumlah kutub motor seperti yang dijelaskan dalam rumus menghitung putaran motor atau $n = \frac{120 f}{p}$ dimana n

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web motor listrik adalah suatu alat yang dapat mengubah energi listrik menjadi tenaga gerak putar dan hal ini tentunya dipengaruhi oleh 3 faktor yaitu daya listrik yang digunakan berapa kecepatan putaran yang dihasilkan dan berapa besar tenaganya torsi rumus menghitung rpm motor listrik

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web pernyataan ini dapat dibuktikan dengan rumus menghitung rpm dibawah ini $\text{rpm} = \frac{f \times 120}{p}$ rpm rotation per minute jumlah putaran dalam satu menit f frekuensi hz p pole jumlah kutub jika sebuah elektro motor memiliki 4 empat kutub magnet pole dan frekuensi 50hz maka rpm motor listrik tersebut adalah $\text{rpm} = \frac{f \times 120}{p}$

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