

Mechanics: units + Dimensions

3 Basic units → length (m)
→ mass (kg)
→ time (s)

Take units back to basic → $1 \text{ kg} = 1 \times 10^3 \text{ g}$
 $1 \text{ nm} = 1 \times 10^{-9} \text{ m}$
 $1 \text{ MW} = 10^6 \text{ W}$
 $1 \text{ cm} = 10^{-2} \text{ m}$
 $1 \text{ mm} = 10^{-3} \text{ m}$

eg. Estimate times heart beats in
a month given that time between
normal heart beats is $80 \times 10^{-3} \text{ s}$

Ans: 30 days } $2592000 \div 80 \times 10^{-3}$
24 hrs } $= 3240000$
60 min } beats in a month
60 sec }

Speed → length / time

Density → mass / volume
 $= \text{mass} / \text{length}^3$

| | | | | | | |
|--------|------------|------------|------------|-----------|-----------|-----------|
| kilo | mega | giga | tera | milli | micro | nano |
| 10^3 | 10^6 | 10^9 | 10^{12} | 10^{-3} | 10^{-6} | 10^{-9} |
| | pico | femto | atto | | | |
| | 10^{-12} | 10^{-15} | 10^{-18} | | | |

Electrotechnology Nquestion Paper 24

Mike Jess



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Catalogues and Indexes of British Great Britain. Her Majesty's Stationery Office, 1974 *Reliability Abstracts and Technical Reviews*, 1967 *Bureau of Mines Research* United States. Bureau of Mines, 1989 *History of Technology Volume 13* Graham Hollister-Short, Frank James, 2016-09-30 The technical problems confronting different societies and periods and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject time and region as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change History of Technology also explores the relations of technology to other aspects of life social cultural and economic and shows how technological development has shaped and been shaped by the society in which it occurred. *Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly* New South Wales. Parliament, 1906 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 **10 in One Study Package for CBSE Chemistry Class 12 with Objective Questions & 3 Sample Papers 4th Edition** Disha Experts, 2020-06-20 *BOMCRATR* Daryl R. Tweeton, Michael James Jackson, Kent S. Roessler, 1992 Minutes of Evidence ... India. Indian industrial commission, 1916-18, 1920 **Parliamentary Debates** Malaya. Parliament. House of Representatives, 1967

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