MEP: Demonstration Project UNIT 1: Indices

UNIT 1 Indices

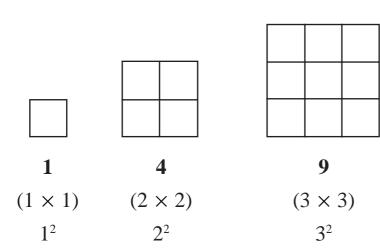
Overhead Slides

Overhead Slides

- 1.1 Square, Cube, Square Roots, Cube Roots
- 1.2 Time Scale
- 1.3 Space Scale
- 1.4 Multiples

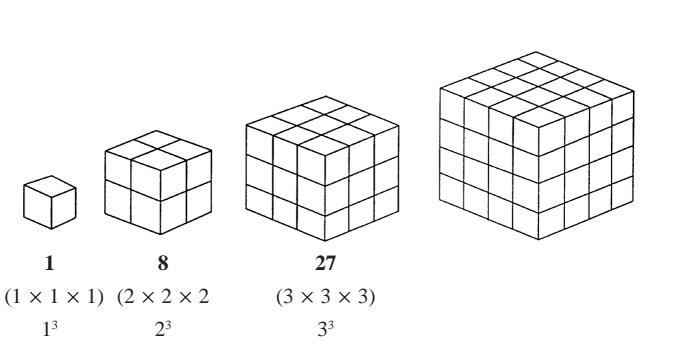
OS 1.1

Squares, Cubes, Square Roots, Cube Roots



8

 2^3

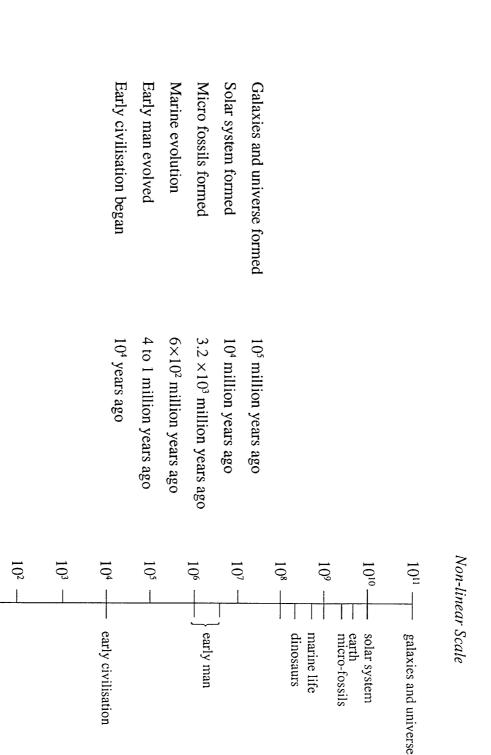


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MEP: Demonstration Project UNIT 1: Indices

OS 1.2 Time Scale



100

101

OS 1.3 Space Scale

Radius of visible universe 10^{23} km

Distance of nearest galaxy 10¹⁹ km

Distance of nearest star 10¹⁴ km

Distance of sun $1.5 \times 10^8 \text{ km}$

Distance of moon $4.0 \times 10^5 \text{ km}$

Highest mountains on earth 8.8 km

Human dimensions 2 m

Atomic radius 10^{-8} km

Nuclear radius 10⁻¹³ km

OS 1.4 Multiples

Prefix	Abbreviation	Multiple
mega	M	10^6
kilo	k	10^3
deci	d	10^{-1}
centi	c	10^{-2}
milli	m	10^{-3}
micro	μ	10^{-6}
nano	n	10^{-9}