Cheatography

Unit 1: Measurement Cheat Sheet by Tana via cheatography.com/144948/cs/34241/

Radian

Number of radians=arc length/radius of same circle

q= S/r

If one revolution is 360°, radians will be circumference/radius. This will give us $2\pi r/r$ and therefore $2\pi rad=360$ and finally, 1 $rad=57.3^{\circ}$ (after dividing)

This also proves that 1rad in one revolution= 2π

Steradian

Number of steradians in sphere= area of sphere/r². Thus, steradians in sphere= 4π

Prefixes

Prefix	Decimal Multiplier	Symbol
yotta	1024	Y
zetta	1021	Z
Exa	1018	E
Peta	1015	Р
Tera	1012	т
giga	109	G
Mega	106	м
kilo	10 ³	k
hecto	10 ²	h
deca	10 ¹	da
deci	10-1	d
centi	10- ²	с
milli	10- ³	m
micro	10-6	μ
nano	10-9	n
pico	10-12	р
femto	10-15	f
atto	10- ¹⁸	a
zepto	10-21	z
yocto	10-24	у

Uncertainties

Sum and Difference

The normal values always follow the given operation however, the uncertainties *ALWAYS* get added

Product and Quotient

The normal values always follow the given operation however, the uncertainties are first *converted into %*, *added* and finally *converted back* (only if needed)

Power

The normal value gets solved as normal however, the uncertainty is *converted into %, multiplied to the given power* and finally *converted back* (only if needed)

Significant Figures

Addition and Subtraction

Krd

Multiplication and Division

Oks

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