



Scientific Notation Units - Intro

- 1 What is the equivalent fraction for this unit

milli

A $\frac{1}{1}$	B $\frac{1}{1,000}$
C $\frac{1}{1,000,000}$	D $\frac{1}{10}$
E $\frac{1}{100}$	F $\frac{1}{100,000,000}$

- 2 What is the equivalent decimal for this unit

milli

A 10	B 0.0001
C 0.01	D 0.001

- 3 What is the equivalent power of ten for this unit

kilo

A 10^2	B 10^3
C 10^{-1}	D 10^4
E 10^0	F 10^{-3}

- 4 What is the equivalent name for this fraction of a unit

$$\frac{1}{1,000}$$

A kilo	B hecto	C tera
D milli	E pico	F deci

- 5 What is the equivalent name for this decimal of a unit

100

A centi	B mega	C giga
D milli	E hecto	F deci

- 6 What is the equivalent name for this power of ten of a unit

$$10^3$$

A giga	B centi	C kilo
D milli	E deca	F deci

- 7 What is the equivalent number for this unit prefix

decaamps

A 0.001 amps	B 1,000 amps
C 0.1 amps	D 0.0001 amps
E 10 amps	F 0.01 amps



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- 8 What is the equivalent fraction for this unit prefix

centimeters

A $\frac{1}{100,000,000}$ meters	B $\frac{1}{10,000}$ meters
C $\frac{1}{10}$ meters	D $\frac{1}{100}$ meters
E $\frac{1}{1,000}$ meters	F $\frac{1}{1,000,000}$ meters

- 9 What is the equivalent power of ten for this unit prefix

kiloseconds

A 10^7 seconds	B 10^{-1} seconds
C 10^2 seconds	D 10^4 seconds
E 10^0 seconds	F 10^3 seconds

- 10 What is the equivalent name for this fraction of a unit

$$\frac{1}{1,000} \text{ grams}$$

A decagrams	B gigagrams
C milligrams	D decigrams
E megagrams	F teragrams

- 11 What is the equivalent name for this decimal of a unit

10 amps

A milliamps	B decaamps
C deciamps	D hectoamps
E microamps	F nanoamps

- 12 What is the equivalent name for this power of ten of a unit

10^2 grams

A kilograms	B hectograms
C picograms	D micrograms
E decigrams	F gigagrams

- 13 What is the abbreviation for this prefix?

giga

A M	B G
C (base)	D T
E k	

- 14 What is the power of 10 for this prefix?

giga

A 10^6	B 10^{12}	C 10^3
D 10^0	E 10^9	



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15 What is the prefix for this abbreviation?

M (ie Mg, Mm)

A	mega	B	giga
C	(base)	D	tera
E	kilo		

16 What is the power of 10 for this abbreviation?

k (ie kg, km)

A	10^6	B	10^0	C	10^3
D	10^{12}	E	10^9		

17 What is the abbreviation for this power of 10?

10^6

A	T	B	G
C	k	D	M
E	(base)		

18 What is the prefix for this power of 10?

10^6

A	giga	B	tera
C	kilo	D	mega
E	(base)		

19 What is the equivalent fraction for this unit

micro

A	$\frac{1}{10}$	B	$\frac{1}{100,000,000,000}$
C	$\frac{1}{10,000}$	D	$\frac{1}{1,000}$
E	$\frac{1}{1,000,000}$		

20 What is the equivalent decimal for this unit

nano

21 What is the equivalent power of ten for this unit

milli

A	10^{-4}	B	10^{-3}
C	10^1	D	10^{-8}
E	10^{-9}	F	10^{-6}



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22 What is the equivalent name for this fraction of a unit

$$\frac{1}{1,000,000}$$

A milli	B nano	C mega
D micro	E deca	F giga

23 What is the equivalent name for this decimal of a unit

1,000

A nano	B micro	C hecto
D giga	E kilo	F centi

24 What is the equivalent name for this power of ten of a unit

$$10^9$$

A giga	B deca	C pico
D micro	E milli	F kilo

25 What is the equivalent power of ten for this unit prefix

milliseconds

A 10^{-4} seconds	B 10^2 seconds
C 10^{-2} seconds	D 10^{-7} seconds
E 10^{-9} seconds	F 10^{-3} seconds

26 What is the equivalent fraction for this unit prefix

microamps

A $\frac{1}{10}$ amps	B $\frac{1}{10,000,000}$ amps
C $\frac{1}{100}$ amps	D $\frac{1}{1,000,000}$ amps
E $\frac{1}{100,000,000,000}$ amps	F $\frac{1}{1,000,000,000,000}$ amps



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27 What is the equivalent number for this unit prefix

teraseconds

- | | |
|---------------------------------|-------------------------------|
| A 1,000,000,000 seconds | B 1,000,000,000,000 seconds |
| C 1,000,000,000,000,000 seconds | D 100,000,000 seconds |
| E 10,000,000 seconds | F 100,000,000,000,000 seconds |

28 What is the equivalent name for this fraction of a unit

$$\frac{1}{1,000,000,000} \text{ grams}$$

- | | |
|-------------|--------------|
| A decagrams | B teragrams |
| C gigagrams | D nanograms |
| E picograms | F centigrams |

29 What is the equivalent name for this decimal of a unit
0.0000000000001 seconds

- | | |
|----------------|----------------|
| A teraseconds | B decaseconds |
| C picoseconds | D milliseconds |
| E centiseconds | F deciseconds |

30 What is the equivalent name for this power of ten of a unit

$$10^{15} \text{ meters}$$

- | | |
|---------------|---------------|
| A picometers | B micrometers |
| C hectometers | D terameters |
| E petameters | F megameters |

31 What is the abbreviation for this prefix?

micro

- | | |
|----------|---------|
| A (base) | B μ |
| C n | D p |
| E m | |

32 What is the power of 10 for this prefix?

(base)

- | | |
|--------------|-------------|
| A 10^{-12} | B 10^{-3} |
| C 10^{-9} | D 10^{-6} |
| E 10^0 | |

33 What is the prefix for this abbreviation?

p (ie pg, pm)

- | | |
|----------|---------|
| A (base) | B micro |
| C nano | D pico |
| E milli | |



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34 What is the power of 10 for this abbreviation?

μ (ie μg , μm)

A 10^{-3}	B 10^0
C 10^{-9}	D 10^{-6}
E 10^{-12}	

35 What is the abbreviation for this power of 10?

10^{-12}

A p	B μ
C n	D m
E (base)	

36 What is the prefix for this power of 10?

10^{-9}

A (base)	B micro
C nano	D pico
E milli	

37 What is the equivalent name for this power of ten of a unit

10^{-3}

A pico	B micro	C milli
D kilo	E mega	F nano

38 What is the equivalent power of ten for this unit

deca

A 10^6	B 10^{-4}
C 10^2	D 10^3
E 10^0	F 10^1

39 What is the equivalent power of ten for this unit prefix

millijoules

A 10^{-1} joules	B 10^{-8} joules
C 10^{-7} joules	D 10^2 joules
E 10^{-3} joules	F 10^{-2} joules

40 What is the equivalent name for this power of ten of a unit

10^2 joules

A decajoules	B millijoules
C nanojoules	D decijoules
E hectojoules	F kilojoules

41 Convert this number in units to scientific notation

5 kiloamps

A 5.00×10^5 amps	B 5.00×10^2 amps
C 5.00×10^8 amps	D 5.00×10^0 amps
E 5.00×10^1 amps	F 5.00×10^3 amps



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42 Convert this scientific notation number to units

4.00×10^3 bytes

- | | |
|----------------|---------------|
| A 4 picobytes | B 4 nanobytes |
| C 4 kilobytes | D 4 decibytes |
| E 4 microbytes | F 4 megabytes |

43 Convert this number in units to scientific notation

1.62 decimeters

- | | |
|--------------------------------|--------------------------------|
| A 1.62×10^1 meters | B 1.62×10^{-4} meters |
| C 1.62×10^{-7} meters | D 1.62×10^{-1} meters |
| E 1.62×10^{-2} meters | F 1.62×10^{-6} meters |

44 Convert this scientific notation number to units

6.81×10^{-3} meters

- | | |
|--------------------|--------------------|
| A 6.81 gigameters | B 6.81 picometers |
| C 6.81 centimeters | D 6.81 micrometers |
| E 6.81 meters | F 6.81 millimeters |

45 Convert this number in units to scientific notation

94.2 decimeters

- | | |
|--------------------------------|--------------------------------|
| A 9.42×10^{-1} meters | B 9.42×10^{-2} meters |
| C 9.42×10^5 meters | D 9.42×10^{-3} meters |
| E 9.42×10^2 meters | F 9.42×10^0 meters |

46 Convert this number in units to scientific notation

0.572 centimeters

- | | |
|--------------------------------|--------------------------------|
| A 5.72×10^{-3} meters | B 5.72×10^{-1} meters |
| C 5.72×10^{-5} meters | D 5.72×10^{-6} meters |
| E 5.72×10^0 meters | F 5.72×10^{-8} meters |

47 Convert this scientific notation number to units

3.12×10^0 meters

- | | |
|-------------------|-------------------|
| A 312 centimeters | B 312 kilometers |
| C 312 gigameters | D 312 meters |
| E 312 megameters | F 312 millimeters |