



Measurement - Unit Conversion (Very Large and Small) Intro - Metric

1 What is the power of 10 for this abbreviation?

c (ie cg, cm)

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

2 What is the abbreviation for this power of 10?

10^1

A d	B c
C (base)	D m
E h	F da

3 Use the mnemonic 'Terribly Gigantic Monsters Killed One Million Men Napping Peacefully' to remember the missing prefix

Terribly	?	10^{12}
Gigantic	giga	10^9
Monsters	mega	10^6
Killed	kilo	10^3
One	(base)	10^0
Million	milli	10^{-3}
Men	micro	10^{-6}
Napping	nano	10^{-9}
Peacefully	pico	10^{-12}

A milli	B giga
C pico	D tera
E nano	F (base)

4 What is the abbreviation for 'milli'?

(base)	10^0
milli	? 10^{-3}
micro	μ 10^{-6}
nano	n 10^{-9}
pico	p 10^{-12}

A m	B μ
C (base)	D p
E n	

5 Each prefix in the mnemonic 'Terribly Gigantic Monsters Killed One Million Men Napping Peacefully' is 1000x smaller. What is the missing exponent?

Terribly	tera	10^{12}
Gigantic	giga	10^9
Monsters	mega	10^6
Killed	kilo	10^3
One	(base)	10^0
Million	milli	10^{-3}
Men	micro	?
Napping	nano	10^{-9}
Peacefully	pico	10^{-12}

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

6 What is the prefix that is abbreviated 'm'?

(base)	10^0
? m	10^{-3}
micro	μ 10^{-6}
nano	n 10^{-9}
pico	p 10^{-12}

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

7 What is the abbreviation for 'giga'?

tera	T	10^{12}
giga	?	10^9
mega	M	10^6
kilo	k	10^3
(base)		10^0

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

8 What is the exponent for 'pico'?

(base)	10^0
milli	m 10^{-3}
micro	μ 10^{-6}
nano	n 10^{-9}
pico	p ?

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



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9 What is the prefix that is abbreviated 'G'?

tera	T	10^{12}
?	G	10^9
mega	M	10^6
kilo	k	10^3
(base)		10^0

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

10 Which unit is smaller

'p' (ie pg) or 'n' (ie ng)

A n	B p
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11 What is the exponent for 'tera'?

tera	T	?
giga	G	10^9
mega	M	10^6
kilo	k	10^3
(base)		10^0

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

12 Which prefix is smaller

'nano' or 'micro'

A micro	B nano
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13 Which unit is larger

'G' (ie Gg) or 'T' (ie Tg)

A T	B G
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14 Which prefix is larger

'kilo' or 'mega'

A mega	B kilo
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15 Convert this scientific notation number to regular notation

$$8.16 \times 10^5$$

A 81,600,000	B 8,160,000
C 816,000	D 81,600

16 Convert this scientific notation number to regular notation

$$8.07 \times 10^7$$

A 8,070,000,000
B 807,000,000
C 80,700,000
D 8,070,000



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17 Convert this number to scientific notation

53,600

A	5.36×10^3	B	0.54×10^4
C	5.36×10^6	D	5.36×10^4
E	53.60×10^4	F	5.36×10^5

18 Convert this number to scientific notation

642,000

A	6.42×10^7	B	6.42×10^5
C	6.42×10^4	D	64.20×10^5
E	6.42×10^6	F	0.64×10^5

19 Convert this scientific notation number to regular notation

7.0×10^{-4}

A	0.0007	B	0.007
C	0.00007	D	0.07

20 Convert this scientific notation number to regular notation

6.1×10^{-5}

A	0.00061	B	0.000061
C	0.0000061	D	0.0061

21 What is the abbreviation for this prefix?

(base)

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

22 What is the power of 10 for this prefix?

tera

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

23 What is the prefix for this abbreviation?

k (ie kg, km)

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

24 What is the power of 10 for this abbreviation?

M (ie Mg, Mm)

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



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25 What is the abbreviation for this power of 10?

$$10^9$$

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

26 What is the prefix for this power of 10?

$$10^9$$

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

27 What is the abbreviation for this prefix?

nano

A m	B (base)
C n	D p
E μ	

28 What is the power of 10 for this prefix?

(base)

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

29 What is the prefix for this abbreviation?

n (ie ng, nm)

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

30 What is the power of 10 for this abbreviation?

(base) (ie g, m)

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

31 What is the abbreviation for this power of 10?

$$10^{-3}$$

A μ	B n
C (base)	D m
E p	

32 What is the prefix for this power of 10?

$$10^{-9}$$

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