



Measurement - Units Large/Small Intro Metric

1 What is the abbreviation for this prefix?

deci

A c	B m	C h
D da	E k	F d

2 What is the multiplication factor for this prefix?

(base)

A 0.01	B 0.1	C 1
D 0.001	E 10	F 100

3 What is the prefix for this abbreviation?

da (ie dag, dam)

A kilo	B centi
C (base)	D milli
E deca	F deci

4 What is the multiplication factor for this abbreviation?

d (ie dg, dm)

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

5 What is the abbreviation for this multiplication factor?

0.01

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

6 What is the prefix for this multiplication factor?

100

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

7 Each prefix in the mnemonic 'King Henry Died by Drinking Chocolate Milk' is 10x smaller. What is the missing exponent?

King kilo
Henry hecto
Died deca
by (base)
Drinking deci
Chocolate centi
Milk milli

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

8 What is the power of 10 for this prefix?

kilo

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



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9 Which unit is larger

'(base)' (ie g) or 'da' (ie dag)

A

da

B

(base)

10 Which prefix is larger

'hecto' or 'kilo'

A

hecto

B

kilo

11 Which unit is smaller

'd' (ie dg) or 'c' (ie cg)

A

d

B

c

12 Convert this value to meters

1 dm

A

0.001 m

B

0.01 m

C

0.1 m

D

10 m

E

1 m

F

100 m

13 Which prefix is smaller

'centi' or 'deci'

A

centi

B

deci

14 Convert this value to kiloliters

1,000 l

A

100 kl

B

1 kl

C

0.001 kl

D

1,000 kl

E

0.1 kl

F

10 kl

15 Convert this value to grams

1 hg

A

1 g

B

100 g

C

0.1 g

D

100,000 g

E

10 g

F

1,000 g

16 Convert this value to meters

1 dam

A

10 m

B

0.1 m

C

1 m

D

10,000 m

E

100 m

F

0.01 m



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17 Convert this value to decaliters

10 l

A 0.1 dal	B 0.01 dal
C 1,000 dal	D 10 dal
E 100 dal	F 1 dal

18 Convert this value to kilograms

1,000 g

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

19 Convert this value to millimeters

1 cm

A 0.01 mm	B 10 mm
C 1,000 mm	D 10,000 mm
E 100 mm	F 1 mm

20 Convert this value to milliliters

1 kl

A 1,000 ml	B 100,000 ml
C 1,000,000 ml	D 10,000 ml
E 10,000,000 ml	F 100,000,000 ml

21 Convert this value to milligrams

1 g

A 1,000,000 mg	B 100 mg
C 1,000 mg	D 1 mg
E 100,000 mg	F 10 mg

22 Convert this value to kilometers

1 dm

A 0.000001 km	B 0.00001 km
C 0.01 km	D 0.0000001 km
E 0.1 km	F 0.0001 km

23 Convert this value to kiloliters

1 dl

A 0.001 kl	B 0.01 kl
C 0.0001 kl	D 0.000001 kl
E 0.0000001 kl	F 0.00001 kl

24 Convert this value to kilograms

1 hg

A 0.01 kg	B 0.001 kg
C 0.1 kg	D 100 kg
E 10 kg	F 1 kg



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25 Convert this value to hectometers

10 dam

A 0.01 hm	B 10 hm
C 100 hm	D 0.001 hm
E 0.1 hm	F 1 hm

26 Convert this value to milliliters

1 l

A 1 ml	B 10,000 ml
C 10 ml	D 1,000 ml
E 100 ml	F 1,000,000 ml

27 Convert this value to milligrams

0.001 g

A 1,000 mg	B 1 mg
C 10 mg	D 0.01 mg
E 100 mg	F 0.1 mg

28 What is the power of 10 for this abbreviation?

h (ie hg, hm)

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

29 What is the power of 10 for this multiplication factor?

1,000

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

30 What is the abbreviation for this power of 10?

10^{-1}

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

31 What is the prefix for this power of 10?

10^{-2}

A milli	B hecto
C (base)	D deci
E centi	F kilo

32 What is the multiplication factor for this power of 10?

10^{-2}

A 1	B 0.01	C 100
D 0.1	E 0.001	F 1,000



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

Terribly	tera	10^{12}
Gigantic	?	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	micro	B	giga
C	(base)	D	tera
E	nano	F	mega

34 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	n
C	μ	D	(base)
E	p		

35 What is the prefix that is abbreviated 'n'?

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

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

36 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	?
One	(base)	10^0
Million	milli	10^{-3}
Men	micro	10^{-6}
Napping	nano	10^{-9}
Peacefully	pico	10^{-12}

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

37 What is the exponent for 'micro'?

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

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

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

39 Which unit is smaller

'm' (ie mg) or '(base)' (ie g)

A	m	B	(base)
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40 What is the prefix that is abbreviated 'k'?

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

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



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41 What is the exponent for 'tera'?

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

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

42 Which prefix is smaller

'milli' or '(base)'

A milli	B (base)
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43 Which unit is larger

'(base)' (ie g) or 'k' (ie kg)

A (base)	B k
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44 Which prefix is larger

'kilo' or 'mega'

A kilo	B mega
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45 Convert this value to meters

9 dm

A 90 m	B 0.009 m
C 9 m	D 0.09 m
E 0.9 m	F 0.0009 m

46 Convert this value to kilometers

5,000 m

A 0.05 km	B 50 km
C 0.5 km	D 5 km
E 5,000 km	F 500 km

47 Convert this value to liters

3 dl

A 0.03 l	B 0.0003 l
C 300 l	D 0.003 l
E 30 l	F 0.3 l

48 Convert this value to milliliters

0.007 l

A 70 ml	B 0.007 ml
C 7 ml	D 0.07 ml
E 700 ml	F 1 ml

**Measurement - Units Large/Small Intro
Metric****49** Convert this value to grams**5 hg**

A 0.5 g	B 500 g
C 5,000 g	D 50 g
E 5 g	F 50,000 g

50 Convert this value to decagrams**70 g**

A 70 dag	B 0.7 dag
C 7 dag	D 0.007 dag
E 0.07 dag	F 700 dag

51 Convert this value to meters**3 km**

A 300 m	B 3,000 m
C 3 m	D 300,000 m
E 30,000 m	F 30 m

52 Convert this value to kilometers**4,000 m**

A 0.04 km	B 0.4 km
C 4,000 km	D 4 km
E 400 km	F 0.004 km

53 Convert this value to liters**7 dl**

A 0.007 l	B 0.07 l
C 0.7 l	D 700 l
E 7 l	F 70 l

54 Convert this value to centiliters**0.02 l**

A 0.02 cl	B 0.002 cl
C 200 cl	D 2 cl
E 20 cl	F 2,000 cl

55 Convert this value to grams**7 dag**

A 70 g	B 700 g
C 7 g	D 7,000 g
E 70,000 g	F 0.7 g

56 Convert this value to decagrams**40 g**

A 4 dag	B 0.004 dag
C 40 dag	D 4,000 dag
E 400 dag	F 0.04 dag



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57 Convert this value to decameters

5 km

A 50 dam	B 5,000 dam
C 0.5 dam	D 500,000 dam
E 5 dam	F 500 dam

58 Convert this value to decameters

19 hm

A 1,900 dam	B 1.9 dam
C 190 dam	D 190,000 dam
E 0.19 dam	F 19,000 dam

59 Convert this value to milliliters

7 cl

A 0.7 ml	B 7 ml
C 70,000 ml	D 0.07 ml
E 70 ml	F 7,000 ml

60 Convert this value to decaliters

19 kl

A 1,900 dal	B 1.9 dal
C 1,900,000 dal	D 19,000 dal
E 190 dal	F 190,000 dal

61 Convert this value to grams

5 kg

A 50 g	B 5,000,000 g
C 5,000 g	D 50,000 g
E 500,000 g	F 500 g

62 Convert this value to decigrams

12 g

A 12 dg	B 0.12 dg
C 1,200 dg	D 120 dg
E 1.2 dg	F 120,000 dg

63 Convert this value to decimeters

9 mm

A 0.00009 dm	B 0.09 dm
C 90 dm	D 0.009 dm
E 0.0009 dm	F 0.9 dm

64 Convert this value to decameters

20 dm

A 0.0002 dam	B 2 dam
C 20 dam	D 0.2 dam
E 200 dam	F 0.002 dam



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65 Convert this value to liters

6 dl

A	0.06 l	B	6 l
C	0.006 l	D	0.6 l
E	600 l	F	0.0006 l

66 Convert this value to centiliters

19 ml

A	190 cl	B	1.9 cl
C	0.0019 cl	D	19 cl
E	1,900 cl	F	0.019 cl

67 Convert this value to kilograms

6 hg

A	0.06 kg	B	0.006 kg
C	60 kg	D	0.6 kg
E	6 kg	F	0.0006 kg

68 Convert this value to kilograms

17 hg

A	0.0017 kg	B	170 kg
C	17 kg	D	1.7 kg
E	0.17 kg	F	0.017 kg

69 Convert this value to millimeters

5 cm

A	5 mm	B	50 mm
C	500 mm	D	0.05 mm
E	5,000 mm	F	50,000 mm

70 Convert this value to kilometers

17 hm

A	1,700 km	B	1.7 km
C	0.17 km	D	17 km
E	0.0017 km	F	0.017 km

71 Convert this value to liters

1 dl

A	0.01 l	B	1 l
C	0.001 l	D	0.0001 l
E	0.1 l	F	100 l

72 Convert this value to centiliters

90 ml

A	9,000 cl	B	900 cl
C	9 cl	D	90 cl
E	0.09 cl	F	0.9 cl

**Measurement - Units Large/Small Intro
Metric****73** Convert this value to centigrams**7 mg**

A 0.007 cg	B 70 cg
C 700 cg	D 0.7 cg
E 0.0007 cg	F 7 cg

74 Convert this value to decagrams**0.6 hg**

A 60 dag	B 0.006 dag
C 0.06 dag	D 600 dag
E 6,000 dag	F 6 dag

75 Multiply these numbers **1.1×10**

A 1.1	B 11	C 1,100
D 110	E 0.1	

76 Multiply these numbers **$1.1 \times 100,000$**

A 110,000	B 1,100,000
C 11,000	D 11,000,000
E 1,100	

77 Convert this scientific notation number to regular notation **1×10^{-3}**

A 0.0001	B 0.01
C 0.001	D 0.1

78 Convert this scientific notation number to regular notation **1×10^3**

A 100,000	B 100
C 10,000	D 1,000

79 Convert this scientific notation number to regular notation **2×10^5**

A 2,000,000	B 20,000,000
C 200,000	D 20,000

80 Convert this scientific notation number to regular notation **1×10^{-3}**

A 0.01	B 0.001
C 0.0001	D 0.1