

Science 10 SI unit conversions

(M)

Mega (k)

10^6 Kilo- (h)

10^3 Hecto- (da)

10^2 Deka-

10^1 Base Unit (d)

Deci- (c)

10^{-1} Centi- (m)

10^{-2} Milli- (μ)

10^{-3} Micro (n)

10^{-6} Nano

10^{-9}

Converting to or from the base unit

1. Convert 4.0 cm to m.

3. Convert 40 mm to m. *0.04 m*

5. Convert 0.4 km to m. *400 m*

7. Convert 40.0 m to mm. *40000 mm*

9. Convert 4 nL to L. *0.000000004 L*

11. Convert 40.0 μ L to L. *0.00000004 L*

15. Convert 400.00 dL to L. *40 L*

2. Convert 4.0 m to cm. *400 cm*

4. Convert 40 m to mm. *40000 mm*

6. Convert 0.4 m to km. *0.0004 km*

8. Convert 400.0 m to mm. *400000 mm*

10. Convert 4 L to nL. *4000000000*

12. Convert 40.0 L to μ L. *40000000*

16. Convert 400.00 L to dL. *4000*

Converting between units with different prefixes

17. Convert 4.0 cm to mm. *40 mm*

19. Convert 40 mm to km. *0.00004 km*

21. Convert 0.4 km to cm. *40000 cm*

23. Convert 40.0 nm to mm. *0.00004 mm*

25. Convert 4 mL to μ L. *4000 μ L*

27. Convert 40.0 μ L to nL. *40000 nL*

18. Convert 4.0 mm to cm. *0.4 cm*

20. Convert 40 km to mm. *40000000 mm*

22. Convert 0.4 cm to km. *0.0000004 km*

24. Convert 400.0 nm to mm. *0.0004 mm*

26. Convert 4 μ L to mL. *0.004 mL*

28. Convert 40.0 nL to μ L. *0.04 μ L*

1. Convert each of the following into scientific notation.

a) 3 427 000

3.427×10^6

b) 0.00456

4.56×10^{-3}

c) 123 453

1.23453×10^5

d) 17 200

1.72×10^4

e) 0.000984

9.84×10^{-4}

f) 0.502

5.02×10^{-1}

g) 0.0000455

4.55×10^{-5}

h) 1362205.2

1.3622052×10^6

i) 107.2

1.072×10^2

j) 0.00565

5.65×10^{-3}

k) 2205.2

2.2052×10^3

l) 1.29

1.29×10^0

m) 650.502

6.50502×10^2

n) 0.0473

4.73×10^{-2}

2. Convert each into decimal form.

a) 1.56×10^4

15600

b) 5.6×10^{-2}

0.056

c) 3.69×10^{-2}

0.0369

d) 7.369×10^5

736900

e) 2.59×10^5

259000

f) 4.59×10^{-1}

0.459

g) 1.369×10^{-2}

0.01369

h) 6.9×10^4

69000

i) 2.59×10^3

2590

j) 2.09×10^{-3}

0.00209