

Key

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.

0.040 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.

0.00004 L

15. Convert 400.00 dL to L.

40.000 L

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

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 nL

12. Convert 40.0 L to μ L.

40000000 μ L

16. Convert 400.00 L to dL.

4000.0 L

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.

0.000004 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

$$3.427 \times 10^6$$

b) 0.00456

$$4.56 \times 10^{-3}$$

c) 123 453

$$1.23453 \times 10^5$$

d) 17 200

$$1.72 \times 10^4$$

e) 0.000984

$$9.84 \times 10^{-4}$$

f) 0.502

$$5.02 \times 10^{-1}$$

g) 0.0000455

$$4.55 \times 10^{-5}$$

h) 1362205.2

$$1.3622052 \times 10^6$$

i) 107.2

$$1.072 \times 10^2$$

j) 0.00565

$$5.65 \times 10^{-3}$$

k) 2205.2

$$2.2052 \times 10^3$$

l) 1.29

$$1.29 \times 10^0$$

m) 650.502

$$6.50502 \times 10^2$$

n) 0.0473

$$4.73 \times 10^{-2}$$

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}

$$0.00209$$