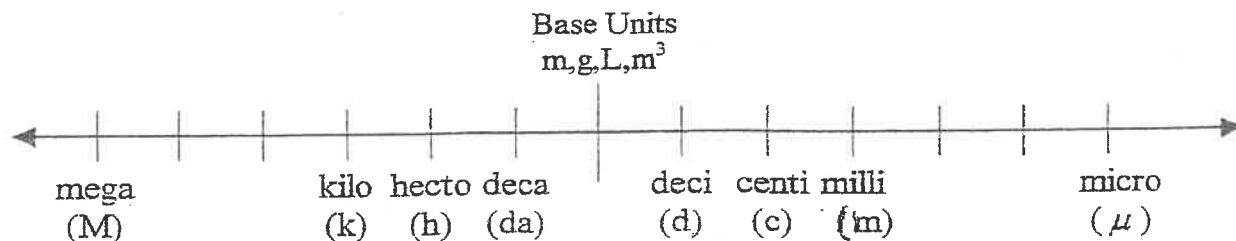


Metric Conversion Chart



Eg. Convert:

a) $27.5 \text{ cm} = \underline{275} \text{ mm}$ b) $5.86 \text{ mm} = \underline{0.000586} \text{ km}$ c) $3 \text{ m} = \underline{30} \text{ dm}$

Using Correct Units

For each of the following commonly used measurements, indicate its symbol.
Use the symbols to complete the following.

<u>ml</u> milliliter	<u>mg</u> milligram	<u>l</u> liter	<u>cm</u> centimeter
<u>kg</u> kilogram	<u>mm</u> millimeter	<u>km</u> kilometer	<u>g</u> gram
<u>m</u> meter	<u>ms</u> millisecond	<u>μg</u> microgram	<u>nm</u> nanometer

REMEMBER → $1.0 \text{ cm}^3 = 1.0 \text{ mL}$

Convert:

a. $9200 \text{ cm} = \underline{92} \text{ m}$

b. $2.0 \text{ ML} = \underline{2000} \text{ kL}$

c. $238 \text{ kg} = \underline{0.238} \text{ Mg}$

d. $50.0 \text{ cm} = \underline{500} \text{ mm}$

e. $706 \text{ dag} = \underline{70600} \text{ dg}$

f. $70.0 \text{ hm} = \underline{7000} \text{ m}$

g. $72 \text{ km} = \underline{72000} \text{ m}$

h. $0.67 \text{ kL} = \underline{670000} \text{ mL}$

i. $1500 \text{ m} = \underline{1.5} \text{ km}$

j. $5800 \text{ mm} = \underline{0.0058} \text{ km}$

k. $0.042 \text{ km} = \underline{420} \text{ dm}$

l. $12.0 \text{ dam} = \underline{1200} \text{ dm}$

m. $4.601 \text{ dam} = \underline{4601} \text{ cm}$

n. $0.020 \text{ m} = \underline{2} \text{ cm}$

o. $0.28 \text{ mL} = \underline{0.28} \text{ cm}^3$

p. $7.50 \text{ μg} = \underline{0.0070} \text{ mg}$

q. $142 \text{ Mm} = \underline{142000} \text{ km}$

r. $60.0 \text{ ml} = \underline{60} \text{ cm}^3$

s. $12.0 \text{ μm} = \underline{0.00120} \text{ cm}$

t. $65.0 \text{ g} = \underline{65000} \text{ mg}$

u. $750 \text{ ml} = \underline{0.75} \text{ L}$

v. $81\ 000 \text{ kg} = \underline{81} \text{ Mg}$

Name

Key

Date

Metric Measurement Conversion

Directions: Write the equivalent measure for each problem.

1. 3770 ml = 3.770 L

2. 9200 L = 9.200 kl

3. 37 g = 0.037 kg

4. 5130 L = 5.130 kl

5. 3240 mg = 3.240 g

6. 6300 m = 6.3 km

7. 24900 kg = 24900000 g

8. 4300000 g = 4300 kg

9. 230 ml = 0.230 L

10. 412 L = 412000 ml

11. 230 L = 0.23 kl

12. 150 cm = 1.5 m

13. 210 ml = 0.000210 kl

14. 7283 ml = 7.283 L

15. 123 cm = 1230 mm

16. 520 L = 520000 ml

17. 165 m = 165000 mm

18. 230 cm = 2.30 m

19. 417 km = 417000 m

20. 723 mg = 0.000723 kg

21. 281 m = 281000 mm

Compare using <, >, or =.

25) 63 cm \langle 6 m

27) 5 g \rangle 508 mg

29) 1,500 mL \equiv 1.5 L

26) 536 cm \equiv 53.6 dm

28) 43 mg \langle 5 g

30) 3.6 m \rangle 36 cm