



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

1 What is the abbreviation for this prefix?

**(base)**

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

2 What is the power of 10 for this prefix?

**tera**

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

3 What is the prefix for this abbreviation?

**M (ie Mg, Mm)**

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

4 What is the power of 10 for this abbreviation?

**M (ie Mg, Mm)**

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

5 What is the abbreviation for this power of 10?  
 $10^9$

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

6 What is the prefix for this power of 10?  
 $10^0$

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

7 What is the abbreviation for this prefix?

**milli**

|          |     |
|----------|-----|
| A p      | B m |
| C (base) | D n |
| E $\mu$  |     |

8 What is the power of 10 for this prefix?

**micro**

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



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9 What is the prefix for this abbreviation?

**$\mu$  (ie  $\mu\text{g}$ ,  $\mu\text{m}$ )**

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

10 What is the power of 10 for this abbreviation?

**(base) (ie g, m)**

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

11 What is the abbreviation for this power of 10?

$10^{-12}$

|          |     |
|----------|-----|
| A p      | B m |
| C (base) | D n |
| E $\mu$  |     |

12 What is the prefix for this power of 10?

$10^0$

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

13 Convert this value to decimeters

**3 m**

|             |            |
|-------------|------------|
| A 30,000 dm | B 30 dm    |
| C 300 dm    | D 3,000 dm |
| E 0.03 dm   | F 0.3 dm   |

14 Convert this value to kilometers

**75,000 m**

|            |             |
|------------|-------------|
| A 0.75 km  | B 75 km     |
| C 0.075 km | D 750 km    |
| E 7.5 km   | F 75,000 km |

15 Convert this value to hectoliters

**2,600 l**

|             |            |
|-------------|------------|
| A 26,000 hl | B 26 hl    |
| C 0.26 hl   | D 260 hl   |
| E 0.026 hl  | F 2,600 hl |

16 Convert this value to milliliters

**0.055 l**

|            |             |
|------------|-------------|
| A 55 ml    | B 55,000 ml |
| C 5,500 ml | D 0.55 ml   |
| E 550 ml   | F 0.055 ml  |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**17** Convert this value to grams

**29 dg**

|            |           |
|------------|-----------|
| A 2.9 g    | B 0.29 g  |
| C 0.0029 g | D 290 g   |
| E 2,900 g  | F 0.029 g |

**18** Convert this value to centigrams

**0.54 g**

|             |            |
|-------------|------------|
| A 54 cg     | B 0.54 cg  |
| C 54,000 cg | D 5.4 cg   |
| E 540 cg    | F 0.054 cg |

**19** Convert this value to hectometers

**2,700 m**

|             |            |
|-------------|------------|
| A 0.027 hm  | B 2,700 hm |
| C 27,000 hm | D 270 hm   |
| E 27 hm     | F 2.7 hm   |

**20** Convert this value to kilometers

**75,000 m**

|            |             |
|------------|-------------|
| A 7,500 km | B 0.075 km  |
| C 75 km    | D 75,000 km |
| E 7.5 km   | F 750 km    |

**21** Convert this value to liters

**22 cl**

|            |             |
|------------|-------------|
| A 0.22 l   | B 0.00022 l |
| C 22 l     | D 0.022 l   |
| E 0.0022 l | F 220 l     |

**22** Convert this value to liters

**41 dl**

|           |            |
|-----------|------------|
| A 4.1 l   | B 0.0041 l |
| C 4,100 l | D 41 l     |
| E 0.041 l | F 0.41 l   |

**23** Convert this value to centigrams

**0.29 g**

|             |           |
|-------------|-----------|
| A 29,000 cg | B 0.29 cg |
| C 2,900 cg  | D 3 cg    |
| E 0.029 cg  | F 29 cg   |

**24** Convert this value to grams

**79 kg**

|                |               |
|----------------|---------------|
| A 7,900 g      | B 7,900,000 g |
| C 79,000 g     | D 79 g        |
| E 79,000,000 g | F 790 g       |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**25** Convert this value to decameters

**23 km**

|              |                 |
|--------------|-----------------|
| A 23,000 dam | B 2,300,000 dam |
| C 2.3 dam    | D 2,300 dam     |
| E 230 dam    | F 230,000 dam   |

**26** Convert this value to centimeters

**86 km**

|                    |                  |
|--------------------|------------------|
| A 8,600,000,000 cm | B 860,000,000 cm |
| C 8,600,000 cm     | D 860,000 cm     |
| E 86,000 cm        | F 86,000,000 cm  |

**27** Convert this value to centiliters

**29 dl**

|           |              |
|-----------|--------------|
| A 2.9 cl  | B 290,000 cl |
| C 290 cl  | D 2,900 cl   |
| E 0.29 cl | F 29 cl      |

**28** Convert this value to deciliters

**7 kl**

|              |                |
|--------------|----------------|
| A 70,000 dl  | B 700 dl       |
| C 700,000 dl | D 7,000,000 dl |
| E 7,000 dl   | F 70 dl        |

**29** Convert this value to grams

**23 hg**

|           |               |
|-----------|---------------|
| A 2.3 g   | B 23,000 g    |
| C 230 g   | D 2,300,000 g |
| E 2,300 g | F 23 g        |

**30** Convert this value to milligrams

**64 cg**

|           |              |
|-----------|--------------|
| A 640 mg  | B 6,400 mg   |
| C 6.4 mg  | D 64,000 mg  |
| E 0.64 mg | F 640,000 mg |

**31** Convert this value to hectometers

**27 dm**

|               |              |
|---------------|--------------|
| A 2.7 hm      | B 0.27 hm    |
| C 0.000027 hm | D 0.00027 hm |
| E 0.027 hm    | F 27 hm      |

**32** Convert this value to kilometers

**70 mm**

|                 |                |
|-----------------|----------------|
| A 0.00000007 km | B 0.0000007 km |
| C 0.00007 km    | D 0.000007 km  |
| E 0.0007 km     | F 0.07 km      |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**33** Convert this value to hectoliters

**24 dal**

|            |            |
|------------|------------|
| A 24 hl    | B 2,400 hl |
| C 0.24 hl  | D 240 hl   |
| E 0.024 hl | F 2.4 hl   |

**34** Convert this value to hectoliters

**18 cl**

|                |              |
|----------------|--------------|
| A 0.18 hl      | B 1.8 hl     |
| C 0.0000018 hl | D 0.018 hl   |
| E 0.0018 hl    | F 0.00018 hl |

**35** Convert this value to grams

**27 dg**

|          |            |
|----------|------------|
| A 27 g   | B 0.0027 g |
| C 0.27 g | D 0.027 g  |
| E 2.7 g  | F 270 g    |

**36** Convert this value to grams

**82 cg**

|             |          |
|-------------|----------|
| A 820 g     | B 82 g   |
| C 0.082 g   | D 0.82 g |
| E 0.00082 g | F 8.2 g  |

**37** Convert this value to kilometers

**26 dam**

|             |            |
|-------------|------------|
| A 260 km    | B 0.26 km  |
| C 2.6 km    | D 26 km    |
| E 0.0026 km | F 0.026 km |

**38** Convert this value to millimeters

**4.4 cm**

|             |            |
|-------------|------------|
| A 0.44 mm   | B 440 mm   |
| C 44,000 mm | D 0.044 mm |
| E 44 mm     | F 4,400 mm |

**39** Convert this value to milliliters

**21 dl**

|                |              |
|----------------|--------------|
| A 2.1 ml       | B 21,000 ml  |
| C 2,100,000 ml | D 210,000 ml |
| E 210 ml       | F 2,100 ml   |

**40** Convert this value to centiliters

**69 l**

|              |                |
|--------------|----------------|
| A 69 cl      | B 69,000 cl    |
| C 690,000 cl | D 6,900,000 cl |
| E 6.9 cl     | F 6,900 cl     |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**41** Convert this value to hectograms

**29 dag**

|            |             |
|------------|-------------|
| A 0.29 hg  | B 290 hg    |
| C 29 hg    | D 0.0029 hg |
| E 2,900 hg | F 2.9 hg    |

**42** Convert this value to centigrams

**70 mg**

|            |            |
|------------|------------|
| A 0.07 cg  | B 70 cg    |
| C 7 cg     | D 0.007 cg |
| E 7,000 cg | F 0.7 cg   |

**43** Convert this value to millimeters

**0.023 m**

|           |             |
|-----------|-------------|
| A 0.23 mm | B 23,000 mm |
| C 23 mm   | D 2,300 mm  |
| E 230 mm  | F 0.023 mm  |

**44** Convert this value to meters

**50 dm**

|          |           |
|----------|-----------|
| A 0.5 m  | B 5,000 m |
| C 50 m   | D 5 m     |
| E 0.05 m | F 0.005 m |

**45** Convert this value to hectoliters

**2,700 l**

|             |            |
|-------------|------------|
| A 2,700 hl  | B 270 hl   |
| C 27,000 hl | D 0.027 hl |
| E 27 hl     | F 2.7 hl   |

**46** Convert this value to liters

**48 dl**

|            |           |
|------------|-----------|
| A 0.48 l   | B 4.8 l   |
| C 0.0048 l | D 4,800 l |
| E 0.048 l  | F 48 l    |

**47** Convert this value to grams

**23 hg**

|             |           |
|-------------|-----------|
| A 23,000 g  | B 2,300 g |
| C 2.3 g     | D 230 g   |
| E 230,000 g | F 23 g    |

**48** Convert this value to kilograms

**67,000 g**

|             |            |
|-------------|------------|
| A 67 kg     | B 6.7 kg   |
| C 67,000 kg | D 0.067 kg |
| E 0.67 kg   | F 6,700 kg |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**49** Convert this value to kilometers

**25,000 m**

|             |            |
|-------------|------------|
| A 2,500 km  | B 25 km    |
| C 25,000 km | D 0.25 km  |
| E 2.5 km    | F 0.025 km |

**50** Convert this value to meters

**88 mm**

|            |             |
|------------|-------------|
| A 0.88 m   | B 88 m      |
| C 8.8 m    | D 0.088 m   |
| E 0.0088 m | F 0.00088 m |

**51** Convert this value to milliliters

**0.024 l**

|            |             |
|------------|-------------|
| A 0.24 ml  | B 24 ml     |
| C 2,400 ml | D 0.024 ml  |
| E 240 ml   | F 24,000 ml |

**52** Convert this value to liters

**94 hl**

|             |               |
|-------------|---------------|
| A 94 l      | B 9,400,000 l |
| C 940,000 l | D 940 l       |
| E 94,000 l  | F 9,400 l     |

**53** Convert this value to grams

**29 dg**

|           |         |
|-----------|---------|
| A 0.029 g | B 29 g  |
| C 2,900 g | D 2.9 g |
| E 0.29 g  | F 290 g |

**54** Convert this value to grams

**96 dg**

|            |           |
|------------|-----------|
| A 0.96 g   | B 9,600 g |
| C 0.0096 g | D 0.096 g |
| E 9.6 g    | F 96 g    |

**55** Convert this value to decimeters

**22 m**

|             |           |
|-------------|-----------|
| A 22 dm     | B 220 dm  |
| C 22,000 dm | D 2.2 dm  |
| E 2,200 dm  | F 0.22 dm |

**56** Convert this value to decimeters

**38 dam**

|              |             |
|--------------|-------------|
| A 380,000 dm | B 380 dm    |
| C 38 dm      | D 38,000 dm |
| E 3,800 dm   | F 3.8 dm    |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**57** Convert this value to liters

**24 dal**

|             |            |
|-------------|------------|
| A 240,000 l | B 24,000 l |
| C 2.4 l     | D 2,400 l  |
| E 240 l     | F 0.24 l   |

**58** Convert this value to milliliters

**34 hl**

|                |                  |
|----------------|------------------|
| A 3,400,000 ml | B 34,000,000 ml  |
| C 3,400 ml     | D 340,000,000 ml |
| E 340,000 ml   | F 34,000 ml      |

**59** Convert this value to centigrams

**23 g**

|            |                |
|------------|----------------|
| A 2.3 cg   | B 230 cg       |
| C 2,300 cg | D 230,000 cg   |
| E 23 cg    | F 2,300,000 cg |

**60** Convert this value to milligrams

**33 dag**

|                  |                 |
|------------------|-----------------|
| A 330,000,000 mg | B 33,000 mg     |
| C 330 mg         | D 330,000 mg    |
| E 3,300,000 mg   | F 33,000,000 mg |

**61** Convert this value to kilometers

**23 dam**

|            |             |
|------------|-------------|
| A 0.23 km  | B 230 km    |
| C 0.023 km | D 23 km     |
| E 2.3 km   | F 0.0023 km |

**62** Convert this value to kilometers

**79 dam**

|              |            |
|--------------|------------|
| A 0.0079 km  | B 0.079 km |
| C 7.9 km     | D 79 km    |
| E 0.00079 km | F 0.79 km  |

**63** Convert this value to deciliters

**25 cl**

|            |             |
|------------|-------------|
| A 250 dl   | B 0.25 dl   |
| C 2,500 dl | D 2.5 dl    |
| E 25 dl    | F 0.0025 dl |

**64** Convert this value to hectoliters

**44 dl**

|              |             |
|--------------|-------------|
| A 0.44 hl    | B 44 hl     |
| C 0.00044 hl | D 4.4 hl    |
| E 0.044 hl   | F 0.0044 hl |



## Measurement - Unit Conversion (Very Large and Small) Practice - Metric

**65** Convert this value to decigrams

**24 mg**

|              |             |
|--------------|-------------|
| A 0.24 dg    | B 2.4 dg    |
| C 0.024 dg   | D 24 dg     |
| E 0.00024 dg | F 0.0024 dg |

**66** Convert this value to kilograms

**5 dg**

|               |                |
|---------------|----------------|
| A 0.005 kg    | B 0.0005 kg    |
| C 0.00005 kg  | D 0.0000005 kg |
| E 0.000005 kg | F 0.5 kg       |

**67** Convert this value to millimeters

**22 dm**

|             |              |
|-------------|--------------|
| A 22 mm     | B 220,000 mm |
| C 22,000 mm | D 2,200 mm   |
| E 220 mm    | F 2.2 mm     |

**68** Convert this value to millimeters

**12 dam**

|                 |                  |
|-----------------|------------------|
| A 12,000,000 mm | B 1,200,000 mm   |
| C 120,000 mm    | D 120,000,000 mm |
| E 12,000 mm     | F 1,200 mm       |

**69** Convert this value to milliliters

**3 cl**

|             |           |
|-------------|-----------|
| A 0.3 ml    | B 3 ml    |
| C 3,000 ml  | D 30 ml   |
| E 30,000 ml | F 0.03 ml |

**70** Convert this value to centiliters

**1 kl**

|                |                  |
|----------------|------------------|
| A 10,000 cl    | B 100,000,000 cl |
| C 1,000,000 cl | D 100,000 cl     |
| E 1,000 cl     | F 100 cl         |

**71** Convert this value to decigrams

**2,300 mg**

|            |          |
|------------|----------|
| A 2,300 dg | B 23 dg  |
| C 0.023 dg | D 2 dg   |
| E 0.23 dg  | F 230 dg |

**72** Convert this value to kilograms

**14 cg**

|                |                 |
|----------------|-----------------|
| A 0.00014 kg   | B 0.00000014 kg |
| C 0.0014 kg    | D 0.014 kg      |
| E 0.0000014 kg | F 0.000014 kg   |