

Converting Between nm, μm , mm and cm (G)

Name: _____

Date: _____

Score: _____ /10

Complete each conversion. Symbols for copying and pasting: $\times \div ^2 ^3$.



1. Convert 16,090,000 μm to m
2. Convert 0.002719 mm to nm
3. Convert 12.4 μm to nm
4. Convert 0.000039 cm to nm
5. Convert 5,900,000 nm to cm
6. Convert 49,780,000,000,000 nm to m
7. Convert 2880 μm to mm
8. Convert 0.000608 cm to μm
9. Convert 0.649 μm to nm
10. Convert 8,700,000 nm to mm

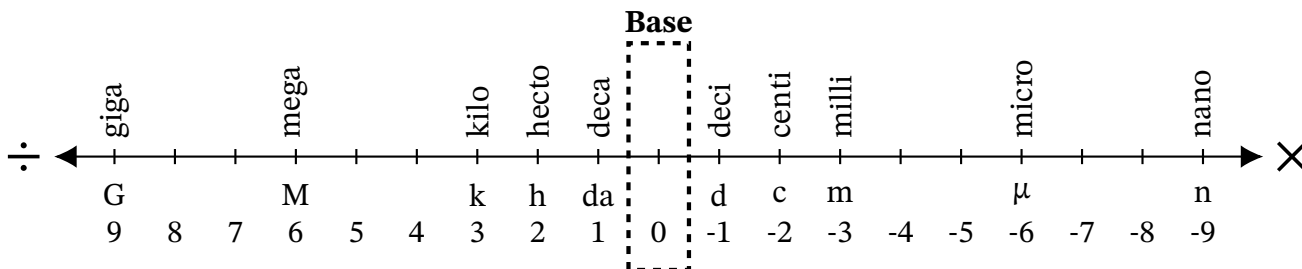
Converting Between nm, μm , mm and cm (G) Answers

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1. Convert 16,090,000 μm to m

$$16,090,000 \mu\text{m} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 16.09 \text{ m}$$

2. Convert 0.002719 mm to nm

$$0.002719 \text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 2719 \text{ nm}$$

3. Convert 12.4 μm to nm

$$12.4 \mu\text{m} \times 10 \times 10 \times 10 = 12,400 \text{ nm}$$

4. Convert 0.000039 cm to nm

$$0.000039 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 390 \text{ nm}$$

5. Convert 5,900,000 nm to cm

$$5,900,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.59 \text{ cm}$$

6. Convert 49,780,000,000,000 nm to m

$$49,780,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 49,780 \text{ m}$$

7. Convert 2880 μm to mm

$$2880 \mu\text{m} \div 10 \div 10 \div 10 = 2.88 \text{ mm}$$

8. Convert 0.000608 cm to μm

$$0.000608 \text{ cm} \times 10 \times 10 \times 10 \times 10 = 6.08 \mu\text{m}$$

9. Convert 0.649 μm to nm

$$0.649 \mu\text{m} \times 10 \times 10 \times 10 = 649 \text{ nm}$$

10. Convert 8,700,000 nm to mm

$$8,700,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 8.7 \text{ mm}$$