

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 708 900 μm to cm
2. Convert 3.64 μm to nm
3. Convert 0.0861 mm to μm
4. Convert 0.000004242 cm to nm
5. Convert 3.8 mm to μm
6. Convert 434 900 nm to μm
7. Convert 60 460 000 000 nm to cm
8. Convert 0.00000153 mm to nm
9. Convert 696 000 000 μm to cm
10. Convert 650 000 nm to mm

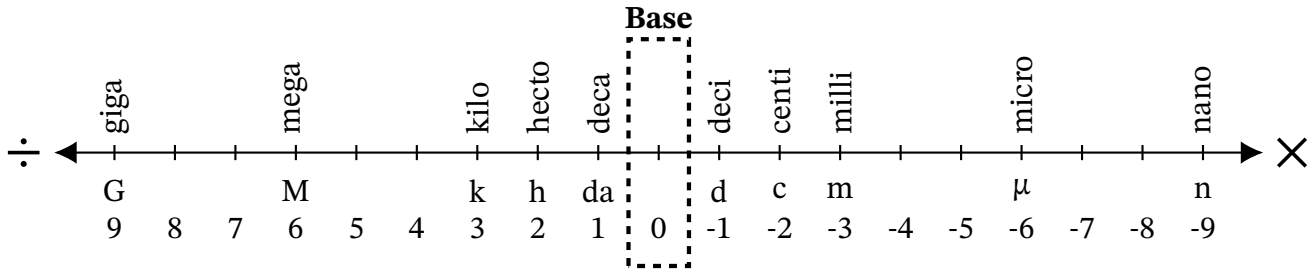
Converting Between nm, μm , mm and cm (C) Answers

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1. Convert 708 900 μm to cm

$$708\,900\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 70.89\ \text{cm}$$

2. Convert 3.64 μm to nm

$$3.64\ \mu\text{m} \times 10 \times 10 \times 10 = 3640\ \text{nm}$$

3. Convert 0.0861 mm to μm

$$0.0861\ \text{mm} \times 10 \times 10 \times 10 = 86.1\ \mu\text{m}$$

4. Convert 0.000004242 cm to nm

$$0.000004242\ \text{cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 42.42\ \text{nm}$$

5. Convert 3.8 mm to μm

$$3.8\ \text{mm} \times 10 \times 10 \times 10 = 3800\ \mu\text{m}$$

6. Convert 434 900 nm to μm

$$434\,900\ \text{nm} \div 10 \div 10 \div 10 = 434.9\ \mu\text{m}$$

7. Convert 60 460 000 000 nm to cm

$$60\,460\,000\,000\ \text{nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 6046\ \text{cm}$$

8. Convert 0.00000153 mm to nm

$$0.00000153\ \text{mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 1.53\ \text{nm}$$

9. Convert 696 000 000 μm to cm

$$696\,000\,000\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 69\,600\ \text{cm}$$

10. Convert 650 000 nm to mm

$$650\,000\ \text{nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.65\ \text{mm}$$