

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 4,070,000,000 nm to mm
2. Convert 2,931,000 nm to μm
3. Convert 0.000003772 cm to nm
4. Convert 0.067 mm to μm
5. Convert 0.000741 cm to nm
6. Convert 0.03774 μm to nm
7. Convert 9.98 cm to μm
8. Convert 4,051,000,000,000 nm to m
9. Convert 61,000,000 μm to m
10. Convert 35,290,000,000 nm to mm

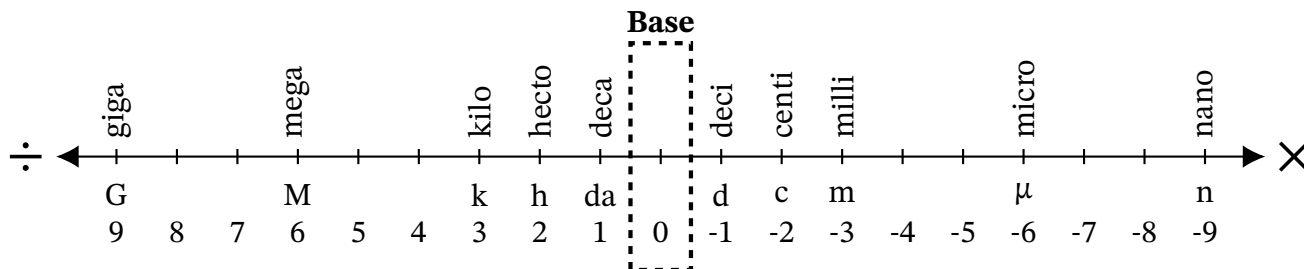
Converting Between nm, μm , mm and cm (B) Answers

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1. Convert 4,070,000,000 nm to mm

$$4,070,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 4070 \text{ mm}$$

2. Convert 2,931,000 nm to μm

$$2,931,000 \text{ nm} \div 10 \div 10 \div 10 = 2931 \mu\text{m}$$

3. Convert 0.000003772 cm to nm

$$0.000003772 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 37.72 \text{ nm}$$

4. Convert 0.067 mm to μm

$$0.067 \text{ mm} \times 10 \times 10 \times 10 = 67 \mu\text{m}$$

5. Convert 0.000741 cm to nm

$$0.000741 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 7410 \text{ nm}$$

6. Convert 0.03774 μm to nm

$$0.03774 \mu\text{m} \times 10 \times 10 \times 10 = 37.74 \text{ nm}$$

7. Convert 9.98 cm to μm

$$9.98 \text{ cm} \times 10 \times 10 \times 10 \times 10 = 99,800 \mu\text{m}$$

8. Convert 4,051,000,000,000 nm to m

$$4,051,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 4051 \text{ m}$$

9. Convert 61,000,000 μm to m

$$61,000,000 \mu\text{m} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 61 \text{ m}$$

10. Convert 35,290,000,000 nm to mm

$$35,290,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 35,290 \text{ mm}$$