

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 17,000 μm to cm
2. Convert 0.00000027 m to nm
3. Convert 395,000,000 nm to mm
4. Convert 34,430 μm to mm
5. Convert 7.71 μm to nm
6. Convert 268,000,000,000 nm to cm
7. Convert 0.0000776 m to μm
8. Convert 140.3 μm to nm
9. Convert 7,200,000 nm to cm
10. Convert 0.06017 mm to nm

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

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



1. Convert 17,000 μm to cm

$$17,000 \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 1.7 \text{ cm}$$

2. Convert 0.00000027 m to nm

$$0.00000027 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 270 \text{ nm}$$

3. Convert 395,000,000 nm to mm

$$395,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 395 \text{ mm}$$

4. Convert 34,430 μm to mm

$$34,430 \mu\text{m} \div 10 \div 10 \div 10 = 34.43 \text{ mm}$$

5. Convert 7.71 μm to nm

$$7.71 \mu\text{m} \times 10 \times 10 \times 10 = 7710 \text{ nm}$$

6. Convert 268,000,000,000 nm to cm

$$268,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 26,800 \text{ cm}$$

7. Convert 0.0000776 m to μm

$$0.0000776 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 77.6 \mu\text{m}$$

8. Convert 140.3 μm to nm

$$140.3 \mu\text{m} \times 10 \times 10 \times 10 = 140,300 \text{ nm}$$

9. Convert 7,200,000 nm to cm

$$7,200,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.72 \text{ cm}$$

10. Convert 0.06017 mm to nm

$$0.06017 \text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 60,170 \text{ nm}$$