

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 9 870 000 nm to μm
2. Convert 0.00000092 cm to nm
3. Convert 859 900 000 000 nm to mm
4. Convert 0.12 cm to μm
5. Convert 1 300 000 nm to cm
6. Convert 0.1194 cm to μm
7. Convert 0.39 μm to nm
8. Convert 0.0315 mm to μm
9. Convert 77 200 000 nm to mm
10. Convert 6 320 000 μm to mm

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

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



1. Convert 9 870 000 nm to μm

$$9\,870\,000\text{ nm} \div 10 \div 10 \div 10 = 9870\ \mu\text{m}$$

2. Convert 0.00000092 cm to nm

$$0.00000092\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 9.2\text{ nm}$$

3. Convert 859 900 000 000 nm to mm

$$859\,900\,000\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 859\,900\text{ mm}$$

4. Convert 0.12 cm to μm

$$0.12\text{ cm} \times 10 \times 10 \times 10 \times 10 = 1200\ \mu\text{m}$$

5. Convert 1 300 000 nm to cm

$$1\,300\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.13\text{ cm}$$

6. Convert 0.1194 cm to μm

$$0.1194\text{ cm} \times 10 \times 10 \times 10 \times 10 = 1194\ \mu\text{m}$$

7. Convert 0.39 μm to nm

$$0.39\ \mu\text{m} \times 10 \times 10 \times 10 = 390\text{ nm}$$

8. Convert 0.0315 mm to μm

$$0.0315\text{ mm} \times 10 \times 10 \times 10 = 31.5\ \mu\text{m}$$

9. Convert 77 200 000 nm to mm

$$77\,200\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 77.2\text{ mm}$$

10. Convert 6 320 000 μm to mm

$$6\,320\,000\ \mu\text{m} \div 10 \div 10 \div 10 = 6320\text{ mm}$$