

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 8 570 000 nm to mm
2. Convert 0.00000877 cm to nm
3. Convert 0.06377 mm to μm
4. Convert 19 550 000 000 nm to mm
5. Convert 287 000 000 μm to cm
6. Convert 0.002874 cm to μm
7. Convert 0.0579 mm to μm
8. Convert 5.07 μm to nm
9. Convert 5070 nm to μm
10. Convert 61 000 000 000 nm to cm

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

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1. Convert 8 570 000 nm to mm

$$8\,570\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 8.57\text{ mm}$$

2. Convert 0.00000877 cm to nm

$$0.00000877\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 87.7\text{ nm}$$

3. Convert 0.06377 mm to μm

$$0.06377\text{ mm} \times 10 \times 10 \times 10 = 63.77\text{ }\mu\text{m}$$

4. Convert 19 550 000 000 nm to mm

$$19\,550\,000\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 19\,550\text{ mm}$$

5. Convert 287 000 000 μm to cm

$$287\,000\,000\text{ }\mu\text{m} \div 10 \div 10 \div 10 \div 10 = 28\,700\text{ cm}$$

6. Convert 0.002874 cm to μm

$$0.002874\text{ cm} \times 10 \times 10 \times 10 \times 10 = 28.74\text{ }\mu\text{m}$$

7. Convert 0.0579 mm to μm

$$0.0579\text{ mm} \times 10 \times 10 \times 10 = 57.9\text{ }\mu\text{m}$$

8. Convert 5.07 μm to nm

$$5.07\text{ }\mu\text{m} \times 10 \times 10 \times 10 = 5070\text{ nm}$$

9. Convert 5070 nm to μm

$$5070\text{ nm} \div 10 \div 10 \div 10 = 5.07\text{ }\mu\text{m}$$

10. Convert 61 000 000 000 nm to cm

$$61\,000\,000\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 6100\text{ cm}$$