

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 1 740 000 nm to mm
2. Convert 4.244 μm to nm
3. Convert 0.000000054 cm to nm
4. Convert 187 800 μm to mm
5. Convert 209 000 000 μm to cm
6. Convert 0.849 cm to μm
7. Convert 445 700 000 nm to mm
8. Convert 8.862 mm to μm
9. Convert 0.009896 cm to nm
10. Convert 20 760 nm to μm

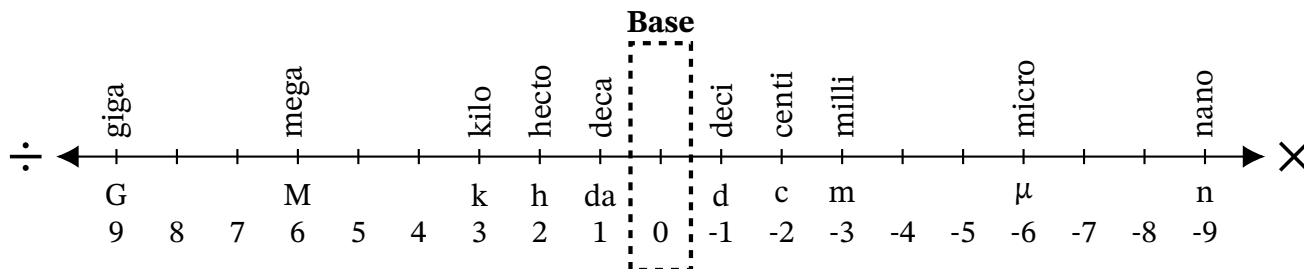
Converting Between nm, μm , mm and cm (E) Answers

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1. Convert 1 740 000 nm to mm

$$1\,740\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 1.74\text{ mm}$$

2. Convert 4.244 μm to nm

$$4.244\ \mu\text{m} \times 10 \times 10 \times 10 = 4244\text{ nm}$$

3. Convert 0.000000054 cm to nm

$$0.000000054\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 0.54\text{ nm}$$

4. Convert 187 800 μm to mm

$$187\,800\ \mu\text{m} \div 10 \div 10 \div 10 = 187.8\text{ mm}$$

5. Convert 209 000 000 μm to cm

$$209\,000\,000\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 20\,900\text{ cm}$$

6. Convert 0.849 cm to μm

$$0.849\text{ cm} \times 10 \times 10 \times 10 \times 10 = 8490\ \mu\text{m}$$

7. Convert 445 700 000 nm to mm

$$445\,700\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 445.7\text{ mm}$$

8. Convert 8.862 mm to μm

$$8.862\text{ mm} \times 10 \times 10 \times 10 = 8862\ \mu\text{m}$$

9. Convert 0.009896 cm to nm

$$0.009896\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 98\,960\text{ nm}$$

10. Convert 20 760 nm to μm

$$20\,760\text{ nm} \div 10 \div 10 \div 10 = 20.76\ \mu\text{m}$$