

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 13.1 μm to nm
2. Convert 0.00805 cm to nm
3. Convert 26,660,000 nm to μm
4. Convert 590,000 nm to mm
5. Convert 0.03129 cm to nm
6. Convert 847,900,000,000,000 nm to m
7. Convert 64,000,000 μm to cm
8. Convert 0.01631 mm to μm
9. Convert 1,503,000,000 nm to mm
10. Convert 0.0032 m to μm

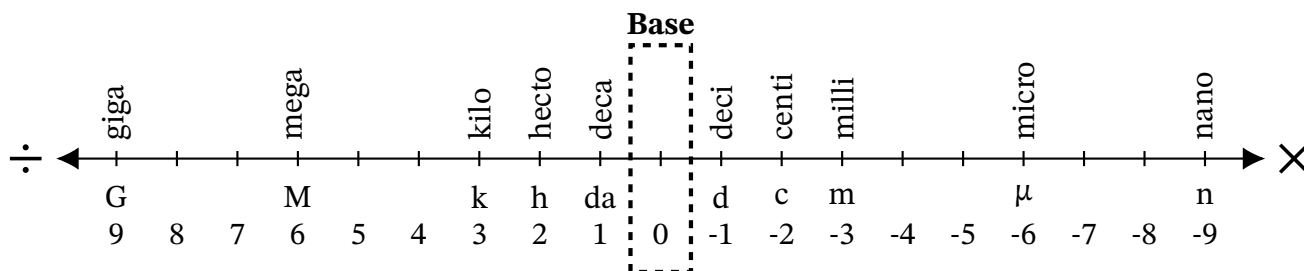
Converting Between nm, μm , mm and cm (F) Answers

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



1. Convert 13.1 μm to nm

$$13.1 \mu\text{m} \times 10 \times 10 \times 10 = 13,100 \text{ nm}$$

2. Convert 0.00805 cm to nm

$$0.00805 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 80,500 \text{ nm}$$

3. Convert 26,660,000 nm to μm

$$26,660,000 \text{ nm} \div 10 \div 10 \div 10 = 26,660 \mu\text{m}$$

4. Convert 590,000 nm to mm

$$590,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.59 \text{ mm}$$

5. Convert 0.03129 cm to nm

$$0.03129 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 312,900 \text{ nm}$$

6. Convert 847,900,000,000,000 nm to m

$$847,900,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 847,900 \text{ m}$$

7. Convert 64,000,000 μm to cm

$$64,000,000 \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 6400 \text{ cm}$$

8. Convert 0.01631 mm to μm

$$0.01631 \text{ mm} \times 10 \times 10 \times 10 = 16.31 \mu\text{m}$$

9. Convert 1,503,000,000 nm to mm

$$1,503,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 1503 \text{ mm}$$

10. Convert 0.0032 m to μm

$$0.0032 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 3200 \mu\text{m}$$