

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 0.0000008869 m to nm
2. Convert 0.045 cm to μm
3. Convert 923,000,000,000 nm to cm
4. Convert 0.00002791 cm to nm
5. Convert 85,770,000,000 nm to mm
6. Convert 0.00003652 m to μm
7. Convert 8,500,000,000 nm to mm
8. Convert 620 nm to μm
9. Convert 103,700,000 nm to μm
10. Convert 0.01153 mm to μm

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

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1. Convert 0.0000008869 m to nm

$$0.0000008869 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 886.9 \text{ nm}$$

2. Convert 0.045 cm to μm

$$0.045 \text{ cm} \times 10 \times 10 \times 10 \times 10 = 450 \mu\text{m}$$

3. Convert 923,000,000,000 nm to cm

$$923,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 92,300 \text{ cm}$$

4. Convert 0.00002791 cm to nm

$$0.00002791 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 279.1 \text{ nm}$$

5. Convert 85,770,000,000 nm to mm

$$85,770,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 85,770 \text{ mm}$$

6. Convert 0.00003652 m to μm

$$0.00003652 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 36.52 \mu\text{m}$$

7. Convert 8,500,000,000 nm to mm

$$8,500,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 8500 \text{ mm}$$

8. Convert 620 nm to μm

$$620 \text{ nm} \div 10 \div 10 \div 10 = 0.62 \mu\text{m}$$

9. Convert 103,700,000 nm to μm

$$103,700,000 \text{ nm} \div 10 \div 10 \div 10 = 103,700 \mu\text{m}$$

10. Convert 0.01153 mm to μm

$$0.01153 \text{ mm} \times 10 \times 10 \times 10 = 11.53 \mu\text{m}$$