

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 0.000000095 cm to nm
2. Convert 0.07474 m to μm
3. Convert 18,300 nm to μm
4. Convert 3.883 cm to μm
5. Convert 0.0000585 mm to nm
6. Convert 0.00618 mm to nm
7. Convert 4,070,000,000,000 nm to m
8. Convert 480,800 μm to mm
9. Convert 7,600,000 nm to μm
10. Convert 59,960,000,000 nm to cm

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

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



1. Convert 0.000000095 cm to nm

$$0.000000095 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 0.95 \text{ nm}$$

2. Convert 0.07474 m to μm

$$0.07474 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 74,740 \mu\text{m}$$

3. Convert 18,300 nm to μm

$$18,300 \text{ nm} \div 10 \div 10 \div 10 = 18.3 \mu\text{m}$$

4. Convert 3.883 cm to μm

$$3.883 \text{ cm} \times 10 \times 10 \times 10 \times 10 = 38,830 \mu\text{m}$$

5. Convert 0.0000585 mm to nm

$$0.0000585 \text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 58.5 \text{ nm}$$

6. Convert 0.00618 mm to nm

$$0.00618 \text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 6180 \text{ nm}$$

7. Convert 4,070,000,000,000 nm to m

$$4,070,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 4070 \text{ m}$$

8. Convert 480,800 μm to mm

$$480,800 \mu\text{m} \div 10 \div 10 \div 10 = 480.8 \text{ mm}$$

9. Convert 7,600,000 nm to μm

$$7,600,000 \text{ nm} \div 10 \div 10 \div 10 = 7600 \mu\text{m}$$

10. Convert 59,960,000,000 nm to cm

$$59,960,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 5996 \text{ cm}$$