

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 345 500 000 nm to mm
2. Convert 840 000 nm to mm
3. Convert 0.0062 mm to μm
4. Convert 0.0000079 cm to nm
5. Convert 78 900 nm to μm
6. Convert 0.000000746 cm to nm
7. Convert 59 200 000 μm to cm
8. Convert 0.0216 μm to nm
9. Convert 420 000 μm to cm
10. Convert 0.42 mm to μm

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

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



1. Convert 345 500 000 nm to mm

$$345\,500\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 345.5\text{ mm}$$

2. Convert 840 000 nm to mm

$$840\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.84\text{ mm}$$

3. Convert 0.0062 mm to μm

$$0.0062\text{ mm} \times 10 \times 10 \times 10 = 6.2\ \mu\text{m}$$

4. Convert 0.0000079 cm to nm

$$0.0000079\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 79\text{ nm}$$

5. Convert 78 900 nm to μm

$$78\,900\text{ nm} \div 10 \div 10 \div 10 = 78.9\ \mu\text{m}$$

6. Convert 0.000000746 cm to nm

$$0.000000746\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 7.46\text{ nm}$$

7. Convert 59 200 000 μm to cm

$$59\,200\,000\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 5920\text{ cm}$$

8. Convert 0.0216 μm to nm

$$0.0216\ \mu\text{m} \times 10 \times 10 \times 10 = 21.6\text{ nm}$$

9. Convert 420 000 μm to cm

$$420\,000\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 42\text{ cm}$$

10. Convert 0.42 mm to μm

$$0.42\text{ mm} \times 10 \times 10 \times 10 = 420\ \mu\text{m}$$