

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 21 610 000 nm to μm
2. Convert 65 000 μm to cm
3. Convert 0.0933 cm to μm
4. Convert 47 000 nm to μm
5. Convert 0.000000149 cm to nm
6. Convert 0.00000055 mm to nm
7. Convert 75 240 000 nm to mm
8. Convert 0.0000027 cm to nm
9. Convert 0.0513 mm to μm
10. Convert 21 000 μm to mm

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

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



1. Convert 21 610 000 nm to μm

$$21\,610\,000\text{ nm} \div 10 \div 10 \div 10 = 21\,610\ \mu\text{m}$$

2. Convert 65 000 μm to cm

$$65\,000\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 6.5\text{ cm}$$

3. Convert 0.0933 cm to μm

$$0.0933\text{ cm} \times 10 \times 10 \times 10 \times 10 = 933\ \mu\text{m}$$

4. Convert 47 000 nm to μm

$$47\,000\text{ nm} \div 10 \div 10 \div 10 = 47\ \mu\text{m}$$

5. Convert 0.000000149 cm to nm

$$0.000000149\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 1.49\text{ nm}$$

6. Convert 0.00000055 mm to nm

$$0.00000055\text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 0.55\text{ nm}$$

7. Convert 75 240 000 nm to mm

$$75\,240\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 75.24\text{ mm}$$

8. Convert 0.0000027 cm to nm

$$0.0000027\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 27\text{ nm}$$

9. Convert 0.0513 mm to μm

$$0.0513\text{ mm} \times 10 \times 10 \times 10 = 51.3\ \mu\text{m}$$

10. Convert 21 000 μm to mm

$$21\,000\ \mu\text{m} \div 10 \div 10 \div 10 = 21\text{ mm}$$