

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 7 040 000 nm to mm
2. Convert 486 200 000 μm to mm
3. Convert 0.0000038 mm to nm
4. Convert 0.000492 cm to μm
5. Convert 6 610 000 nm to μm
6. Convert 0.000000019 cm to nm
7. Convert 8700 μm to mm
8. Convert 95 700 000 000 nm to cm
9. Convert 0.2455 cm to μm
10. Convert 38.2 μm to nm

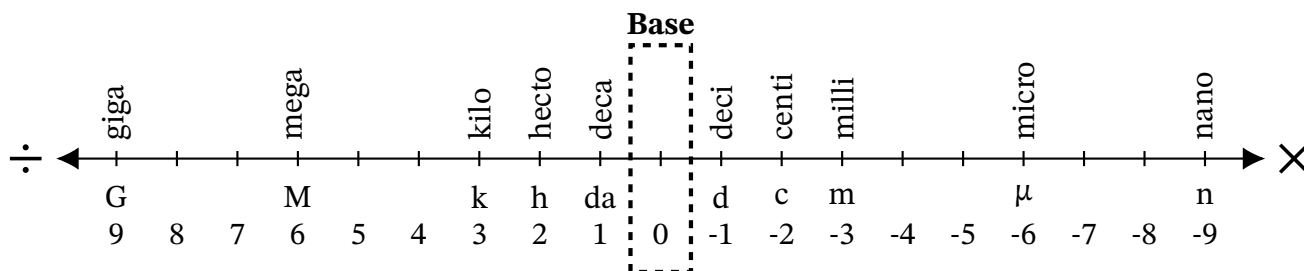
Converting Between nm, μm , mm and cm (F) Answers

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1. Convert 7 040 000 nm to mm

$$7\,040\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 7.04\text{ mm}$$

2. Convert 486 200 000 μm to mm

$$486\,200\,000\ \mu\text{m} \div 10 \div 10 \div 10 = 486\,200\text{ mm}$$

3. Convert 0.0000038 mm to nm

$$0.0000038\text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 3.8\text{ nm}$$

4. Convert 0.000492 cm to μm

$$0.000492\text{ cm} \times 10 \times 10 \times 10 \times 10 = 4.92\ \mu\text{m}$$

5. Convert 6 610 000 nm to μm

$$6\,610\,000\text{ nm} \div 10 \div 10 \div 10 = 6610\ \mu\text{m}$$

6. Convert 0.000000019 cm to nm

$$0.000000019\text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 0.19\text{ nm}$$

7. Convert 8700 μm to mm

$$8700\ \mu\text{m} \div 10 \div 10 \div 10 = 8.7\text{ mm}$$

8. Convert 95 700 000 000 nm to cm

$$95\,700\,000\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 9570\text{ cm}$$

9. Convert 0.2455 cm to μm

$$0.2455\text{ cm} \times 10 \times 10 \times 10 \times 10 = 2455\ \mu\text{m}$$

10. Convert 38.2 μm to nm

$$38.2\ \mu\text{m} \times 10 \times 10 \times 10 = 38\,200\text{ nm}$$