

## Converting Between nm, $\mu\text{m}$ , mm and cm (H)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /10

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



1. Convert 3700  $\mu\text{m}$  to cm
2. Convert 8,753,000 nm to  $\mu\text{m}$
3. Convert 8,200,000,000  $\mu\text{m}$  to m
4. Convert 811,000,000 nm to mm
5. Convert 0.0000003376 m to nm
6. Convert 0.4921 mm to  $\mu\text{m}$
7. Convert 0.0008933 mm to nm
8. Convert 0.0828  $\mu\text{m}$  to nm
9. Convert 0.00769 cm to nm
10. Convert 313,000,000,000 nm to cm

# Converting Between nm, $\mu\text{m}$ , mm and cm (H) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /10

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



1. Convert 3700  $\mu\text{m}$  to cm

$$3700 \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 0.37 \text{ cm}$$

2. Convert 8,753,000 nm to  $\mu\text{m}$

$$8,753,000 \text{ nm} \div 10 \div 10 \div 10 = 8753 \mu\text{m}$$

3. Convert 8,200,000,000  $\mu\text{m}$  to m

$$8,200,000,000 \mu\text{m} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 8200 \text{ m}$$

4. Convert 811,000,000 nm to mm

$$811,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 811 \text{ mm}$$

5. Convert 0.0000003376 m to nm

$$0.0000003376 \text{ m} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 337.6 \text{ nm}$$

6. Convert 0.4921 mm to  $\mu\text{m}$

$$0.4921 \text{ mm} \times 10 \times 10 \times 10 = 492.1 \mu\text{m}$$

7. Convert 0.0008933 mm to nm

$$0.0008933 \text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 893.3 \text{ nm}$$

8. Convert 0.0828  $\mu\text{m}$  to nm

$$0.0828 \mu\text{m} \times 10 \times 10 \times 10 = 82.8 \text{ nm}$$

9. Convert 0.00769 cm to nm

$$0.00769 \text{ cm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 76,900 \text{ nm}$$

10. Convert 313,000,000,000 nm to cm

$$313,000,000,000 \text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 31,300 \text{ cm}$$