

# 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 746 000 000 nm to cm
2. Convert 6900  $\mu\text{m}$  to cm
3. Convert 0.0718 mm to nm
4. Convert 3 100 000 nm to cm
5. Convert 0.038  $\mu\text{m}$  to nm
6. Convert 0.00012 mm to nm
7. Convert 0.042 mm to  $\mu\text{m}$
8. Convert 58 260 000  $\mu\text{m}$  to mm
9. Convert 7 250 000 nm to  $\mu\text{m}$
10. Convert 0.011 cm to  $\mu\text{m}$

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

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1. Convert 746 000 000 nm to cm

$$746\,000\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 74.6\text{ cm}$$

2. Convert 6900  $\mu\text{m}$  to cm

$$6900\ \mu\text{m} \div 10 \div 10 \div 10 \div 10 = 0.69\text{ cm}$$

3. Convert 0.0718 mm to nm

$$0.0718\text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 71\,800\text{ nm}$$

4. Convert 3 100 000 nm to cm

$$3\,100\,000\text{ nm} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.31\text{ cm}$$

5. Convert 0.038  $\mu\text{m}$  to nm

$$0.038\ \mu\text{m} \times 10 \times 10 \times 10 = 38\text{ nm}$$

6. Convert 0.00012 mm to nm

$$0.00012\text{ mm} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 120\text{ nm}$$

7. Convert 0.042 mm to  $\mu\text{m}$

$$0.042\text{ mm} \times 10 \times 10 \times 10 = 42\ \mu\text{m}$$

8. Convert 58 260 000  $\mu\text{m}$  to mm

$$58\,260\,000\ \mu\text{m} \div 10 \div 10 \div 10 = 58\,260\text{ mm}$$

9. Convert 7 250 000 nm to  $\mu\text{m}$

$$7\,250\,000\text{ nm} \div 10 \div 10 \div 10 = 7250\ \mu\text{m}$$

10. Convert 0.011 cm to  $\mu\text{m}$

$$0.011\text{ cm} \times 10 \times 10 \times 10 \times 10 = 110\ \mu\text{m}$$