

# Converting Between ng, $\mu\text{g}$ , mg and g (J)

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

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

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

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



1. Convert 0.0000099 mg to ng
2. Convert 1.42 mg to  $\mu\text{g}$
3. Convert 3 890 000 000 ng to g
4. Convert 488.3  $\mu\text{g}$  to ng
5. Convert 520 000 mg to g
6. Convert 960 ng to  $\mu\text{g}$
7. Convert 0.00000008043 g to ng
8. Convert 42.7 mg to  $\mu\text{g}$
9. Convert 620 000 ng to mg
10. Convert 4 717 000 000  $\mu\text{g}$  to g

## Converting Between ng, μg, mg and g (J) Answers

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



1. Convert 0.0000099 mg to ng

$$0.0000099 \text{ mg} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 9.9 \text{ ng}$$

2. Convert 1.42 mg to μg

$$1.42 \text{ mg} \times 10 \times 10 \times 10 = 1420 \text{ μg}$$

3. Convert 3 890 000 000 ng to g

$$3\,890\,000\,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 3.89 \text{ g}$$

4. Convert 488.3 μg to ng

$$488.3 \text{ μg} \times 10 \times 10 \times 10 = 488\,300 \text{ ng}$$

5. Convert 520 000 mg to g

$$520\,000 \text{ mg} \div 10 \div 10 \div 10 = 520 \text{ g}$$

6. Convert 960 ng to μg

$$960 \text{ ng} \div 10 \div 10 \div 10 = 0.96 \text{ μg}$$

7. Convert 0.00000008043 g to ng

$$0.00000008043 \text{ g} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 80.43 \text{ ng}$$

8. Convert 42.7 mg to μg

$$42.7 \text{ mg} \times 10 \times 10 \times 10 = 42\,700 \text{ μg}$$

9. Convert 620 000 ng to mg

$$620\,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 0.62 \text{ mg}$$

10. Convert 4 717 000 000 μg to g

$$4\,717\,000\,000 \text{ μg} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 4717 \text{ g}$$