

Converting Between ng, μg , mg and g (G)

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 2700 μg to mg
2. Convert 2,140,000,000 ng to g
3. Convert 0.0000017 mg to ng
4. Convert 0.00636 mg to μg
5. Convert 373,400,000 ng to μg
6. Convert 0.000351 g to μg
7. Convert 0.03583 g to mg
8. Convert 0.1893 μg to ng
9. Convert 21,560,000,000,000 ng to g
10. Convert 6,010,000,000 ng to mg

Converting Between ng, μg , mg and g (G) Answers

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



1. Convert 2700 μg to mg

$$2700 \mu\text{g} \div 10 \div 10 \div 10 = 2.7 \text{ mg}$$

2. Convert 2,140,000,000 ng to g

$$2,140,000,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 2.14 \text{ g}$$

3. Convert 0.0000017 mg to ng

$$0.0000017 \text{ mg} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 1.7 \text{ ng}$$

4. Convert 0.00636 mg to μg

$$0.00636 \text{ mg} \times 10 \times 10 \times 10 = 6.36 \mu\text{g}$$

5. Convert 373,400,000 ng to μg

$$373,400,000 \text{ ng} \div 10 \div 10 \div 10 = 373,400 \mu\text{g}$$

6. Convert 0.000351 g to μg

$$0.000351 \text{ g} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 351 \mu\text{g}$$

7. Convert 0.03583 g to mg

$$0.03583 \text{ g} \times 10 \times 10 \times 10 = 35.83 \text{ mg}$$

8. Convert 0.1893 μg to ng

$$0.1893 \mu\text{g} \times 10 \times 10 \times 10 = 189.3 \text{ ng}$$

9. Convert 21,560,000,000,000 ng to g

$$21,560,000,000,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 21,560 \text{ g}$$

10. Convert 6,010,000,000 ng to mg

$$6,010,000,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 6010 \text{ mg}$$