

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

Name: _____

Date: _____

Score: _____ /10

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



1. Convert 54,770 μg to mg
2. Convert 19,150 ng to μg
3. Convert 5.215 g to mg
4. Convert 0.000233 mg to ng
5. Convert 6500 ng to μg
6. Convert 0.0879 mg to μg
7. Convert 0.0009131 g to ng
8. Convert 4,900,000,000 ng to g
9. Convert 0.0005365 mg to ng
10. Convert 7,816,000,000 μg to g

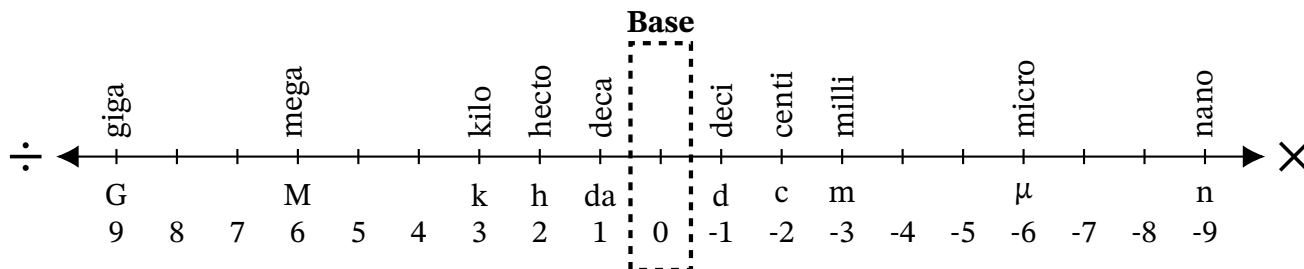
Converting Between ng, μg , mg and g (F) Answers

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1. Convert 54,770 μg to mg

$$54,770 \mu\text{g} \div 10 \div 10 \div 10 = 54.77 \text{ mg}$$

2. Convert 19,150 ng to μg

$$19,150 \text{ ng} \div 10 \div 10 \div 10 = 19.15 \mu\text{g}$$

3. Convert 5.215 g to mg

$$5.215 \text{ g} \times 10 \times 10 \times 10 = 5215 \text{ mg}$$

4. Convert 0.000233 mg to ng

$$0.000233 \text{ mg} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 233 \text{ ng}$$

5. Convert 6500 ng to μg

$$6500 \text{ ng} \div 10 \div 10 \div 10 = 6.5 \mu\text{g}$$

6. Convert 0.0879 mg to μg

$$0.0879 \text{ mg} \times 10 \times 10 \times 10 = 87.9 \mu\text{g}$$

7. Convert 0.0009131 g to ng

$$0.0009131 \text{ g} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 913,100 \text{ ng}$$

8. Convert 4,900,000,000 ng to g

$$4,900,000,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 4.9 \text{ g}$$

9. Convert 0.0005365 mg to ng

$$0.0005365 \text{ mg} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 536.5 \text{ ng}$$

10. Convert 7,816,000,000 μg to g

$$7,816,000,000 \mu\text{g} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 7816 \text{ g}$$