

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 84.99 μg to ng
2. Convert 680 700 mg to g
3. Convert 0.0859 mg to ng
4. Convert 11 860 000 ng to mg
5. Convert 5.996 μg to ng
6. Convert 689 300 000 000 000 ng to g
7. Convert 0.00005302 g to ng
8. Convert 238 600 000 μg to mg
9. Convert 0.0195 g to μg
10. Convert 82 000 μg to mg

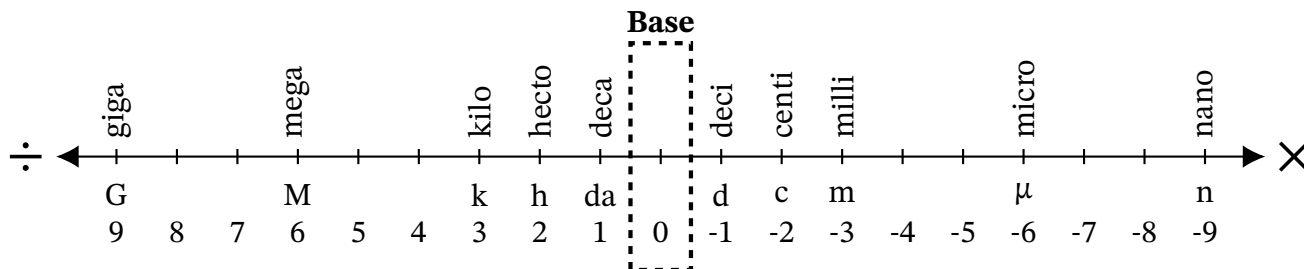
Converting Between ng, μg , mg and g (F) Answers

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1. Convert 84.99 μg to ng

$$84.99 \mu\text{g} \times 10 \times 10 \times 10 = 84\,990 \text{ ng}$$

2. Convert 680 700 mg to g

$$680\,700 \text{ mg} \div 10 \div 10 \div 10 = 680.7 \text{ g}$$

3. Convert 0.0859 mg to ng

$$0.0859 \text{ mg} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 85\,900 \text{ ng}$$

4. Convert 11 860 000 ng to mg

$$11\,860\,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 11.86 \text{ mg}$$

5. Convert 5.996 μg to ng

$$5.996 \mu\text{g} \times 10 \times 10 \times 10 = 5996 \text{ ng}$$

6. Convert 689 300 000 000 000 ng to g

$$689\,300\,000\,000\,000 \text{ ng} \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 \div 10 = 689\,300 \text{ g}$$

7. Convert 0.00005302 g to ng

$$0.00005302 \text{ g} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 53\,020 \text{ ng}$$

8. Convert 238 600 000 μg to mg

$$238\,600\,000 \mu\text{g} \div 10 \div 10 \div 10 = 238\,600 \text{ mg}$$

9. Convert 0.0195 g to μg

$$0.0195 \text{ g} \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 19\,500 \mu\text{g}$$

10. Convert 82 000 μg to mg

$$82\,000 \mu\text{g} \div 10 \div 10 \div 10 = 82 \text{ mg}$$