



What excited state electrons configuration of Sodium ion?

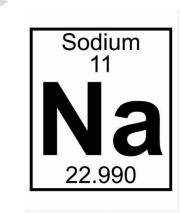
A. $1s^22s^22p^53s^1$

B. 1s²2s²2p⁶3s¹3p¹

C. $1s^22s^22p^6$

D. $1s^22s^22p^63s^23p^3$

E. $1s^22s^22p^63s^23p^6$







• Significant figure and Decimal

Number	Significant figure	Decimal
0.236		
2.01		
3.20		
20.00		

Calculation







Lowest Significant Figure

2.22 x 0.4 = 0.888

 $2.22 \times 0.4 \approx 0.9$



Lowest Decimal

2.22 + 0.4 = 2.62

 $2.22 + 0.4 \approx 2.6$





The following data were collected to determine the density of a liquid.

Mass of bottle filled with liquid 21.245 g

Mass of empty bottle 10.234 g

Volume of liquid in bottle 11.0 mL

The density of the liquid is best recorded as

A. 0.1 g/mL

B. 1 g/mL

C. 1.0 g/mL

D. 1.00 g/mL

E. 1.001 g/mL

Example 4



The following data were collected to determine the density of insoluble compound X. liquid.

Mass of beaker and compound X 24.285 g

Mass of empty beaker 16.492 g

The volume of compound X 1.47 mL

The density of the compound X is best recorded as

- A. 2.176 g/mL
- B. 3.745 g/mL
- C. 5.34 g/mL
- D. 5.340 g/mL
- E. 0.12 g/mL