13.	If 225.6 grams of calcium phosphate are produced in a precipitation reaction, how many moles of the salt have been formed? a. 7.273 • 10 ⁻¹ mol b. 4.403 • 10 ¹ mol c. 1.039 • 10 ¹ mol d. 9.471 • 10 ⁻¹ mol
 14.	Which pair of elements can be classified as noble gases? a. H and He b. Na and K c. Kr and Ar d. N and O
 15.	How many helium atoms are present in $7.4 \cdot 10^{-3}$ moles of the gas? a. $5.6 \cdot 10^{21}$ b. $1.8 \cdot 10^{22}$ c. $4.5 \cdot 10^{21}$ d. $1.2 \cdot 10^{-26}$
 16.	If 88.2 grams of charcoal (assume pure carbon) is burned in an excess of oxygen, what mass of CO ₂ is produced by the reaction? a. 44.1 g b. 323 g c. 113.8 g d. 276 g
 17.	Consider ²³⁵ U. How many protons are present in this isotope? a. 143 b. 235 c. 92 d. 177
 18.	Which of the following illustrates the balanced reaction of ethyl alcohol with an excess of oxygen to form carbon dioxide and water? $ \begin{array}{lll} a. & C_2H_5OH(\ell)+3 \ O_2(g) \rightarrow 2 \ CO_2(g)+3 \ H_2O(\ell) \\ b. & 3 \ C_2H_5OH(\ell)+7 \ O_2(g) \rightarrow 6 \ CO_2(g)+9 \ H_2O(\ell) \\ c. & C_2H_5OH(\ell)+2 \ O_2(g) \rightarrow 3 \ CO_2(g)+3 \ H_2O(\ell) \\ d. & 3 \ C_2H_5OH(\ell)+3 \ O_2(g) \rightarrow 2 \ CO_2(g)+6 \ H_2O(\ell) \\ \end{array} $
 19.	Consider ²⁰³ Hg. How many neutrons are present in this isotope? a. 203 b. 80 c. 283 d. 123
 20.	Ammonia is manufactured using the reaction: $N_2(g) + 3 H_2(g) \rightarrow 2 NH_3(g)$ How much ammonia can be produced in the reaction of 2.04 ´ 10^{-3} mol of nitrogen and 6.83 ´ 10^{-3} mol of hydrogen? a. $4.08 \cdot 10^{-3}$ mol b. $5.20 \cdot 10^{-3}$ mol c. $6.83 \cdot 10^{-3}$ mol d. $7.47 \cdot 10^{-3}$ mol

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