## Answers to practice problems A in page 653

Homework -GENERAL Additional Practice Have students fill in the blanks in the following nuclear equations: 1.  $^{222}_{86}Rn \rightarrow ^{218}_{84}Po + \_$ Ans. <sup>4</sup><sub>2</sub>He **2.**  ${}^{87}_{37}\text{Rb} \longrightarrow {}^{87}_{38}\text{Sr} + \_\_\_ Ans. {}^{0}_{-1}e$ **3.**  $^{188}_{79}\text{Au} \rightarrow ^{188}_{78}\text{Pt} + \_$ Ans. +1e **4.**  $^{37}_{18}\text{Ar} + ^{0}_{-1}e \longrightarrow \_$  Ans.  $^{37}_{17}\text{Cl}$ **5.**  $^{28}_{13}\text{Al} \rightarrow \underline{\qquad} + ^{0}_{-1}e$  Ans.  $^{28}_{14}\text{Si}$ **6.**  ${}^{57}_{27}\text{Co} + \_\_ \rightarrow {}^{57}_{26}\text{Fe}$  Ans.  ${}^{0}_{-1}e$ 7.  $^{243}_{95}\text{Am} \rightarrow \_\_+ ^{4}_{2}\text{He}$ Ans. 239 93Np **8.**  $^{125}_{56}\text{Ba} \rightarrow \_\_\_ + ^{0}_{+1}e$ Ans. 125 55Cs 9. \_\_\_\_\_  $\rightarrow \frac{61}{28}$ Ni +  $_{+1}^{0}e$  Ans.  $\frac{61}{29}$ Cu **10.**  $+ {}^{0}_{-1}e \rightarrow {}^{82}_{37}\text{Rb}$  Ans.  ${}^{82}_{38}\text{Sr}$ 11.  $\xrightarrow{230}_{92}$  He  $\xrightarrow{230}_{90}$  Th  $+\frac{4}{2}$  He  $\xrightarrow{230}_{92}$  U **12.**  $\rightarrow \frac{198}{80}$  Hg +  $_{-1}^{0}e$ Ans.  $\frac{198}{79}$  Au Logical Answers to Practice Problems A 1. <sup>214</sup><sub>82</sub>Pb 2. \_1e 3. 256 Md 4.  $^{22}_{11}Na \rightarrow ^{22}_{10}Ne + ^{0}_{+1}e$