17. Identify the pairs which are not of isotopes?

- (a) ${}^{12}_{6}X, {}^{13}_{6}Y$ (b) ${}^{35}_{17}X, {}^{37}_{17}Y$ (c) ${}^{14}_{6}X, {}^{14}_{7}Y$ (d) ${}^{8}_{4}X, {}^{8}_{5}Y$

Sol. (c, d) Isotopes have the same atomic number but different mass number.

 \therefore $\binom{14}{6}X, \frac{14}{7}Y$) and $\binom{8}{4}X, \frac{8}{5}Y$) are not isotopes.