40 A nucleus of $^{238}_{92}$U decays in stages by emitting α-particles and β^- particles, eventually forming a nucleus of $^{206}_{82}$Pb.

How many α-particles and how many β^- particles are emitted during the decay chain?

	α-particles	β^- particles
A	8	6
B	8	10
C	16	6
D	16	22