$\left(\sqrt{5}-2\sqrt{3}\right)^{2}$+$\sqrt{240}=\left(\sqrt{5}\right)^{2}-2\*2\*\sqrt{5}\*\sqrt{3}+\left(2\sqrt{3}\right)^{2}-\sqrt{240}=5-4\sqrt{15}+12+\sqrt{16\*15}=17-4\sqrt{15}+4\sqrt{15}=17$