Mozart's music is some of the most beautiful ever written. It has elegant proportions. It turns out that in one of his pieces, the length of the second section is 62 measures. The first section is 38 measures long. $62 \div 38$ is 1.63, which is very close to 1.618, a number which is called the golden ratio. Many of his works have golden ratio proportions.

What is a golden ratio? It's the ratio of the blue diagonal of this pentagon to the red side.

Architects and artists use it to plan work of pleasing proportions. Did Mozart deliberately use this ratio to plan his music?