1086-VO-1133   **S J Lester*** (`sjlester@gmail.com`). *a-Points of the Riemann zeta-function on the critical line.* The roots of $\zeta(s) = a$, where a is a nonzero complex number are known as a-points and have long been an object of study in the theory of the Riemann zeta-function. In this talk we will briefly describe some of their properties and discuss the problem of determining how many a-points lie on the line $\Re(s) = 1/2$. (Received September 19, 2012)