

THE LOGARITHM OF THE SQUARE ROOT OF 10

Impress your teachers!

The square root of **10** ($\sqrt{10}$ or 'hooky-thing' 10) is **3.162**, which falls right in the middle of your slat, half way to **10**. The *logarithm* of **3.162** is **.5**. It is fairly difficult to multiply **3.162** by **3.162** to get the answer **10**. One *can* line up the **1** of the bottom slat to **3.162** of the top slat, look over to **3.162** of the bottom slat to find **10** above it. One can also simply add **.5** to **.5** to get **1.0**, which is the logarithm to **10**.

Logarithms continue **1.1**, **1.2**, **1.3**, etc. all the way to **2**, which is the logarithm of **100**. Then **2.1**, **2.2**, **2.3** . . . to **3**, which is the logarithm of **1000**.

If **.5** is the logarithm for **3.162**, then **1.5** is the logarithm of **31.62** and **2.5** is the logarithm of **316.2**. Thus, very large numbers can be simplified to make calculations much easier.

