

so that the error after  $n$  hours is only  $24$  in the  
 thousands of collective  $\mu(200)$ , and find

$$2.772, 777, 777, 240, 240 \\
+ 26, 240, 240 \\
= 2, 824, 256$$

# A Mathematician's Apology

By G. H. HARDY

and Major MacMahon's subsequent calculation shows that  
 $\mu(200)$  is  $\approx 2.824, 256$

These results suggest very strongly that it is possible to  
 obtain a formula for  $\mu(x)$  which will give values of order  
 of magnitude and character, but not the exact value of  $\mu(x)$   
 is shown by the following theorem

Theorem 1

THEOREM Let  $\mu(x)$  be the number of positive integers  $\leq x$  which are coprime to  $x$ . Then  

$$\mu(x) \sim \frac{6}{\pi^2} x$$
 as  $x \rightarrow \infty$ .  
 where  $\frac{6}{\pi^2} \approx 0.6079$   
 This theorem is due to Leonhard Euler.  
 The constant  $\frac{6}{\pi^2}$  is called the Euler constant.  
 The proof of this theorem is given in the next chapter.

# Mathematicians Apology

**DP Hallahan**



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