I. . Observe that $2^3 = 8$, $2^5 = 32$, $3^2 = 9$ and $3^3 = 27$. From these facts, we can deduce that $\log_2 3$, the logarithm of 3 to base 2, is

(a) between $1\frac{1}{3}$ and $1\frac{1}{2}$;
(b) between $1\frac{1}{2}$ and $1\frac{2}{3}$;
(c) between $1\frac{2}{3}$ and 2;
(d) between 2 and 3.