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**2013 9** What is the solution of  $5^x = 4$ ?

(A)  $x = \frac{\log_e 4}{5}$       (B)  $x = \frac{4}{\log_e 5}$       (C)  $x = \frac{\log_e 4}{\log_e 5}$       (D)  $x = \log_e \left( \frac{4}{5} \right)$

**1**

**C**

$$5^x = 4$$

$$\log_e 5^x = \log_e 4$$

$$x \log_e 5 = \log_e 4$$

$$x = \frac{\log_e 4}{\log_e 5}$$

State Mean:  
**0.85**

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.