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- 2016 10** Which expression is equivalent to $4 + \log_2 x$? **1**
(A) $\log_2 (2x)$ (B) $\log_2 (16 + x)$ (C) $4\log_2 (2x)$ (D) $\log_2 (16x)$

D

Use $4 = \log_2 2^4$.

$$\begin{aligned} 4 + \log_2 x &= \log_2 2^4 + \log_2 x \\ &= \log_2 16 + \log_2 x \\ &= \log_2 16x \end{aligned}$$

State Mean:
0.61

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