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**2016** **11**  
**g**

Solve  $\sin\left(\frac{x}{2}\right) = \frac{1}{2}$  for  $0 \leq x \leq 2\pi$ ?

**2**

$$\sin \frac{x}{2} = \frac{1}{2}$$

$$\therefore \frac{x}{2} = \frac{\pi}{6}, \frac{5\pi}{6}$$

$$\therefore x = \frac{\pi}{3}, \frac{5\pi}{3}$$

State Mean:  
**1.24**

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

### BOSTES: Notes from the Marking Centre

This information is released by BOSTES in late Term 1 2017.