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- 2014 5** Which equation represents the line perpendicular to  $2x - 3y = 8$ , passing through the point  $(2, 0)$ ? **1**
- (A)  $3x + 2y = 4$  (B)  $3x + 2y = 6$  (C)  $3x - 2y = -4$  (D)  $3x - 2y = 6$

**B**

$$2x - 3y = 8$$

$$3y = 2x - 8$$

$$y = \frac{2x - 8}{3}$$

$\therefore$  gradient of perpendicular is  $-\frac{3}{2}$ .

$$y - 0 = -\frac{3}{2}(x - 2)$$

$$2y = -3x + 6$$

$$3x + 2y = 6$$

State Mean:

**0.71**

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