**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Expressions and Equations (8.EE.8)**

$$\left\{\begin{array}{c}y=2x+b\\y=3x+c\end{array}\right.$$

In the system of equation shown, *b* and *c* are constants. In the coordinate plane, the graphs of the equations intersect at point *P*.

If the x-coordinate of point *P* is 2, which of the following expressions are equal to the y-coordinate of point *P*?

|  |  |
| --- | --- |
| Choose yes or no | Explain your thinking |
| A. $4+b$ Yes or No |  |
| B. $4b$  Yes or No |  |
| C. $6+c$  Yes or No |  |
| D. $6c$  Yes or No |  |
| E. $4b+6c$  Yes or No |  |

Source: PARCC Spring 2018 Grade 8 Released Items <https://parcc-assessment.org/wp-content/uploads/2018/08/Math_2018_Released_Items/Grade08/Grade-8-Math-Item-Set-2018.pdf>