12 2 The point $P$ divides the interval from $A(-2,2)$ to $B(8,-3)$ internally in the ratio $3: 2$.
(C) 0
(D) -1
(A) 4
(B) 2

A

$$
\begin{aligned}
P(x, y) & =\left(\frac{3(8)+2(-2)}{3+2}, \frac{3(-3)+2(2)}{3+2}\right) \\
& =\left(\frac{20}{5}, \frac{-5)}{5}\right) \\
& =(4,-1)
\end{aligned}
$$

$\therefore$ the $x$ co-ordinate is 4 .

* These solutions have been provided by projectmaths and are not supplied or endorsed by the Board of Studies

