

11	1a	The point P divides the interval joining $A(-1, -2)$ to $B(9, 3)$ internally in the ratio 4:1. Find the coordinates of P .	2
$A(-1, -2), B(9, 3)$ and 4:1 $P(x, y) = \left(\frac{mx_2 + nx_1}{m+n}, \frac{my_2 + ny_1}{m+n} \right)$ $= \left(\frac{4(9) + 1(-1)}{4+1}, \frac{4(3) + 1(-2)}{4+1} \right)$ $= \left(\frac{35}{5}, \frac{10}{5} \right)$ $= (7, 2) \quad \therefore P(7, 2)$			State Mean: 1.72/2

* These solutions have been provided by [projectmaths](http://projectmaths.com.au) and are not supplied or endorsed by the Board of Studies

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