@title Identifying a Point on a Line Graph

@description This question assesses understanding of coordinate geometry and interpreting points on a line graph.

@question The line shown in the coordinate plane passes through the points $(0, 2)$ and $(4, 10)$. Which point lies on the line?

![](https://i.imgur.com/qZf77FJ.png)

@instruction Select the correct point from the options below.

@difficulty moderate

@Order 1

@option (2, 5)

@option (3, 7)

@@option (2, 6)

@option (1, 4)

@explanation The slope of the line is $(10-2)/(4-0) = 2$. Equation: y = 2x + 2. Substituting x=2 → y=6. So (2,6) lies on the line.

@subject Quantitative Math

@unit Geometry and Measurement

@topic Coordinate Geometry

@plusmarks 1

@title Solving Quadratic Equations

@description This question tests the ability to solve quadratic equations by factoring.

@question Solve for $x$: $$x^{2} - 7x + 12 = 0$$

@instruction Choose the correct values of $x$.

@difficulty easy

@Order 2

@option $x=2$ or $x=3$

@@option $x=3$ or $x=4$

@option $x=4$ or $x=5$

@option $x=6$ or $x=2$

@explanation Factorize: $x^{2} - 7x + 12 = (x-3)(x-4) = 0$. So, $x=3$ or $x=4$.

@subject Quantitative Math

@unit Algebra

@topic Quadratic Equations & Functions (Finding roots/solutions, graphing)

@plusmarks 1