Reading the Constant of Proportionality from Graphs

Original tasks 1, 2 / independent work

Task 1

A proportional line passes through the origin and has a marked point at (3, 12). The x-axis is in seconds and the y-axis is in meters. Find k and write the equation.

Task 2

A graph shows a line through the origin with a marked point at (5, 7). The axes have no units. Compute k as a fraction and as a decimal rounded to two places. Write the equation.

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Original tasks 3, 4 / independent work

Task 3

A proportional line through the origin has a marked point at (2, 9). The x-axis is in items and the y-axis is in dollars. Find k, write the equation, and state the unit of k.

Task 4

A line through the origin has a marked point at (8, 6). Another point on the line is (4, 3). Compute k using both points and confirm they agree. Write the equation.