Understand graphing domains, ranges and model parameters.

Key knowledge | Free preview

Learning target: Understand graphing domains, ranges and model parameters.

Graph windows can hide key features or suggest invalid input values. For inverse variation, zero is excluded and a practical model may restrict the remaining domain to positive integers. Inspect a table along with the graph, label the axes and avoid treating a curve outside the valid domain as a meaningful prediction for the original situation.

Try the mathematics

Task 1. For a job model $T=24/w$ hours, enter the relation in a graphing tool using $1\le w\le 12$ and $0\le T\le 26$. Make a table at $w=1,2,3,4,6,12$ and identify the practical domain if w counts workers.

Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

Find this resource: https://resources.aspiretopowerlearning.com.au/vce/skills/aspire-internal-gm-u2-o3-cross-kk-03/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 3; Key knowledge; bullet 3; p. 41.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o3-cross-kk-03. This is an internal identifier, not an official VCAA code.

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