Precision and contextual reporting

Key skills | Free preview

Learning target: Interpret technology results as exact or approximate and report them to an appropriate accuracy.

Accuracy has to match the question being answered. Preserve exact values where possible, keep guard digits during calculation and round only the final reported quantity. Compare the rounded answer with the defining equation and state the units of any discrepancy. The last displayed digit of a tool output is not automatically a justified measurement precision.

Try the mathematics

Task 1. A tool gives the maximum rate as 1/e L/min and 0.367879441... numerically. Report it to three decimal places and calculate the rounding discrepancy. Which part of the result is exact?

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-mm-u34-o3-ks-02/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Mathematical Methods; Units 3–4; Outcome 3; Key skills; bullet 2; p. 104.

The learning target is a concise paraphrase. Aspire reference: aspire-mm-u34-o3-ks-02. This is an internal identifier, not an official VCAA code.

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