Define and represent numbers in integer, rational, real and complex settings, and in sequences and series

Key skills | Free preview

Learning target: Define and represent numbers in integer, rational, real and complex settings, and in sequences and series.

Number sets describe different permitted values. Choose a representation that reveals structure: a fraction shows rationality, a square-root form preserves an exact value, and a complex coordinate records two real components. State your convention for natural numbers and distinguish an unordered set from an ordered sequence.

Try the mathematics

Task 1. Take N={0,1,2,...}. Classify -6, 0, 0.125, √8, √9 and 2+i in the smallest applicable set among N, Z, Q, R and C. Explain each classification.

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/sm-u1-o1-ks-03/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Specialist Mathematics; Unit 1; Outcome 1; Key skills; bullet 3; p. 62.

The learning target is a concise paraphrase. Aspire reference: sm-u1-o1-ks-03. This is an internal identifier, not an official VCAA code.

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