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| Australian Curriculum Year 6 Mathematics Sample assessment | Task-specific standards — matrix  Goal difference — the importance of zero | Name |
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Purpose of assessment: To analyse and interpret data containing positive and negative numbers in sporting league tables.

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| Understanding and Skills | Understanding & Fluency | Conceptual understanding  Description of the role of zero. Location and representation of zero and positive and negative numbers on a number line.  **(Q1 and 3)** | Connection and clear description of the role of zero in a range of situations using relevant supporting examples. Accurate representation of team results in tables and ranking on a number line. | Connection and description of the role of zero in different situations with some examples. Representation of team results in tables and ranking on a number line. | Recognition of the role of zero in simple familiar situations. Accurate location and representation of positive and negative numbers on a number line. | Some identification of the role of zero. Representation of zero appropriately on a number line. | Statement about an obvious role of zero. |
| Procedural fluency  Recall and use of facts and procedures to add and subtract positive and negative numbers. **(Q2 and 6a)** | Use of procedures to accurately compile data in tables and add and subtract positive and negative numbers to correctly calculate total goal differences and home and away results. | Use of procedures to accurately compile data in tables and add and subtract positive and negative numbers. | Use of procedures to accurately compile data in tables. | Some use of procedures to compile data in tables. | Partial identification of goals scored or wins and losses. |
| Problem solving & Reasoning | Problem solving approaches  Application of problem solving approaches to analyse positive and negative data in sporting tables. **(Q7a)** | Systematic application of problem solving approaches to effectively analyse data. | Application of problem solving approaches to accurately analyse data. | Application of problem solving approaches to analyse data. | Some application of problem solving approaches to analyse data. | Partial selection of problem solving approaches. |
| Reasoning and justification  Explanations of mathematical thinking to justify conclusions. **(Q4, 5, 6b, 7b and 8)** | Clear explanations of mathematical thinking and reasoning, including justification of choices and conclusions; and making logical predictions about which teams will win the games in Week 5. | Explanation of mathematical thinking and reasoning, including reasons for choices and discussion of conclusions. | Description of mathematical thinking and discussion of conclusions. | Statements about choices and conclusions. | Isolated statements. |