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| Australian Curriculum Year 6 Sample assessment Mathematics | Task-specific standards — continua  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 | | | Problem solving & Reasoning | | | |  |
| Description of the role of zero. Location and representation of zero and  positive and negative numbers on a number line. **(Q1 & 3)**  Recall and use of facts and procedures to add and subtract  positive and negative numbers. **(Q2 & 6a)** | | | Application of problem solving approaches to analyse  positive and negative data in sporting tables. **(Q7a)**  Explanations of mathematical thinking to justify conclusions. **(Q4, 5, 6b, 7b & 8)** | | | |  |
| 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.  Accurate representation of team results in tables and ranking on a number line. |  | Systematic application of problem solving approaches to effectively analyse data. 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. | |  | |  | A |
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| Connection and description of the role of zero in different situations with some examples. |  | Explanation of mathematical thinking and reasoning, including reasons for choices and discussion of conclusions. | |  | |  | B |
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| Use of procedures to accurately compile data in tables. Recognition of the role of zero in simple familiar situations. Accurate location and representation of positive and negative numbers on a number line. |  | Application of problem solving approaches to analyse data. Description of mathematical thinking and discussion of conclusions. | |  | |  | C |
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| Some use of procedures to compile data in tables. |  | Some application of problem solving approaches to analyse data and statements about choices and conclusions. | |  | |  | D |
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| Statements about the role of zero. |  | Isolated statements. | |  |  |  | E |
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