



PAT Teaching Resources Centre

Target teaching to every student's strengths





PAT Maths Annotated Question sample

The screenshot displays the PAT Teaching Resources Centre interface. At the top, there is a search bar and a menu icon. The main content area is titled "Annotated Question" and "PAT Maths 4th Ed, Test 1, Q1". Below the title, there is a star icon for "Add items to your favourites". The question text is "Which box has half the objects circled?". Below the question, there are two boxes: the first contains four yellow stars, with the last one circled in red; the second contains eight blue birds, with four of them circled in red. There are radio buttons for each box. The interface is annotated with several callout boxes:

- Skill this question is assessing:** Recognise a half of a group.
- Curriculum links:** Curriculum code: ACMNA016 [Select state curriculum](#)
- Strand, sub-strand and achievement band:** Number and Algebra - Fractions and decimals, 85-94
- Question difficulty:** 87.7
- The question as it appears in the PAT Maths assessment:** Points to the question text and the two boxes.
- Add items to your favourites:** Points to the star icon.
- Question difficulty:** Points to the difficulty score.



Common errors and misconceptions

Option reasoning	A	 (may have identified the one circled as the 'one' of half)
	B	Key
	C	 (may have completed by observation 'looks like a half', or knows one of 'two' groups so is looking for two items identified)
	D	 (may have identified the one not circled as the 'one' of half)
	E	 (may have completed by observation 'looks like a half')

Key concepts and skills

- Recognising fractions are equal parts of the whole set
- Identifying fractions can be part of a group (set) not just a whole object
- Understanding more than one part can be identified (circled)

Prerequisites

- Finding half

Related activities below the level

- Finding half
- Fraction notation

Related activities at the level

- Fraction of a group
- Fraction notation
- Finding half

Related activities beyond the level

- Fraction representation – unit fractions
- Fraction notation
- Division by sharing
- Fraction of a group
- Fraction representation – multiples of unit fractions
- Doubles facts
- Ordering fractions
- Finding half

Related annotated questions

- One quarter object (example)
- Basic share (example)
- Identify one-quarter group (example)

Identifies the correct answer, and explains each incorrect answer

Explains the key concepts and skills required to answer the question correctly

Differentiated related teaching activities 'below' the level help support students who are yet to master the required skills

Differentiated related activities 'at the level' help students consolidate their skills

Differentiated related activities 'beyond the level' challenge students who are ready to progress further

Related annotated questions provide teachers with questions that assess similar skills