PAT Teaching Resources Centre
Support student progress by connecting assessment with practice

PAT Maths: Annotated question

Annotated question: PAT Maths 4th Ed. Test 1.01

Linked from: Number and Algebra: Fractions and decimals 85-94
Strand: Number and Algebra
PAT Maths question difficulty: 87.7
PAT Maths description: Recognise a half of a group.
Curriculum code: ACMNA016 Select state curriculum

PREREQUISITES
- Finding half

QUESTION
Which box has half the objects circled?
Annotated question: PAT Maths 4th Edition, Test 1, Question 1

PREREQUISITES
- Finding half

COMMON ERRORS AND MISCONCEPTIONS
<table>
<thead>
<tr>
<th>Key</th>
<th>Option reasoning</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>(may have identified the one circled as the ‘one’ of half)</td>
</tr>
<tr>
<td>A</td>
<td>(may have identified the one not circled as the ‘one’ of half)</td>
</tr>
<tr>
<td>C</td>
<td>(may have completed by observation ‘looks like a half’, or knows one of ‘two’ groups so is looking for two items identified)</td>
</tr>
<tr>
<td>D</td>
<td>(may have completed by observation ‘looks like a half’)</td>
</tr>
</tbody>
</table>

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)

LINKED CONCEPT BUILDERS
- Fraction of a group

MOVING FORWARD
- Fraction representation – unit fractions