Read and use angle facts

Stage 06 | Transfer & Solve | 8 mixed items

Stage 06: Solve a turning context

Transfer & Solve

Show your working or construction on paper. State units where asked. For questions 7 and 8, explain your method. Numerical entries may be rounded to 2 decimal places.

Name: _____ Date: _____

Work on separate paper. Plot and label figures; retain compass arcs. Give a reason for items 7 and 8.

1. A robot turns 40° anticlockwise then continues in the same direction to complete a full turn. How much farther must it turn?

2. A robot turns 65° anticlockwise then continues in the same direction to complete a full turn. How much farther must it turn?

3. A robot turns 72.5° anticlockwise then continues in the same direction to complete a full turn. How much farther must it turn?

4. A robot turns 110° anticlockwise then continues in the same direction to complete a full turn. How much farther must it turn?

5. At one point, three angles are 125°, 90° and b. Find b if these fill one full turn.

6. At one point, three angles are 137.5°, 90° and b. Find b if these fill one full turn.

7. Diagnose an error. A robot turns 40° anticlockwise then continues in the same direction to complete a full turn. How much farther must it turn? A learner answers “321”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A robot turns 65° anticlockwise then continues in the same direction to complete a full turn. How much farther must it turn?

Self-check after attempting: use the separate answer key on the skill page. Correct reasoning and a valid drawing matter as well as the final answer.

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