Read and use angle facts

Stage 05 | Connect & Justify | 8 mixed items

Stage 05: Combine angle facts

Connect & Justify

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

2. At one point, three angles are 40°, 90° and b. Find b if these fill one full turn.

3. At one point, three angles are 65°, 90° and b. Find b if these fill one full turn.

4. At one point, three angles are 72.5°, 90° and b. Find b if these fill one full turn.

5. Two adjacent angles form a straight line. One is 110°. Find the other.

6. Two adjacent angles form a straight line. One is 125°. Find the other.

7. Diagnose an error. At one point, three angles are 137.5°, 90° and b. Find b if these fill one full turn. A learner answers “133.5”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. At one point, three angles are 40°, 90° and b. Find b if these fill one full 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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