Choose and construct bisectors

Stage 06 | Transfer & Solve | 8 mixed items

Stage 06: Locate a boundary in a plan

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 fence must remain equally distant from two intersecting road edges inside their angle. Which single internal locus should it follow?

2. A fence must remain equally distant from two intersecting road edges inside their angle. Which single internal locus should it follow?

3. A fence must remain equally distant from two intersecting road edges inside their angle. Which single internal locus should it follow?

4. A fence must remain equally distant from two intersecting road edges inside their angle. Which single internal locus should it follow?

5. A point lies on the perpendicular bisector of AB. Its distance to A is 8 cm. Find its distance to B in cm.

6. A point lies on the perpendicular bisector of AB. Its distance to A is 10 cm. Find its distance to B in cm.

7. Diagnose an error. A fence must remain equally distant from two intersecting road edges inside their angle. Which single internal locus should it follow? A learner answers “Perpendicular bisector of endpoints”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A fence must remain equally distant from two intersecting road edges inside their angle. Which single internal locus should it follow?

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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