Choose and construct bisectors

Stage 05 | Connect & Justify | 8 mixed items

Stage 05: Justify equal distances

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

2. A point lies on the perpendicular bisector of AB. Its distance to A is 2 cm. Find its distance to B in cm.

3. A point lies on the perpendicular bisector of AB. Its distance to A is 3.5 cm. Find its distance to B in cm.

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

5. A point must be equally distant from two intersecting straight boundary lines. Which locus is needed?

6. A point must be equally distant from two fixed points. Which locus is needed?

7. Diagnose an error. A point lies on the perpendicular bisector of AB. Its distance to A is 10 cm. Find its distance to B in cm. A learner answers “11”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. A point lies on the perpendicular bisector of AB. Its distance to A is 2 cm. Find its distance to B in cm.

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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.