

NAME: \_\_\_\_\_

*G.G.18: Construct the perpendicular bisector of a given segment, using a straightedge and compass, and justify the construction*

1. 060734a, P.I. G.G.18

Using a compass and straightedge, construct the perpendicular bisector of  $\overline{AB}$  shown below. Show all construction marks.



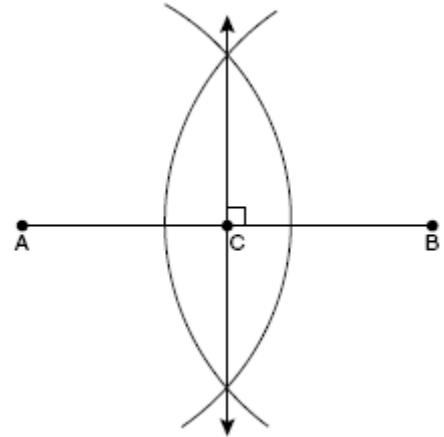
2. 060435a, P.I. G.G.18

Using only a compass and a straightedge, construct the perpendicular bisector of  $\overline{AB}$  and label it  $c$ . [Leave all construction marks.]



3. fall0804ge, P.I. G.G.18

The diagram below shows the construction of the perpendicular bisector of  $\overline{AB}$ .



Which statement is *not* true?

- [A]  $AC + CB = AB$       [B]  $AC = 2AB$   
[C]  $CB = \frac{1}{2}AB$       [D]  $AC = CB$

*G.G.18: Construct the perpendicular bisector of a given segment, using a straightedge and compass, and justify the construction*

[2] A correct construction is drawn, showing the arcs intersecting above and below  $\overline{AB}$ , and the perpendicular line is drawn.

[1] All of the construction arcs are drawn, but the perpendicular line is not drawn.

[0] A drawing that is not an appropriate construction is shown.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[1] obviously incorrect procedure.

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[2] A correct construction is drawn, showing the arcs intersecting above and below  $\overline{AB}$ , and line c is drawn.

[1] A correct construction is drawn, but line c is not labeled.

[0] A drawing that is not a construction is shown with arc marks sketched.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[2] obviously incorrect procedure.

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[3] B

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