

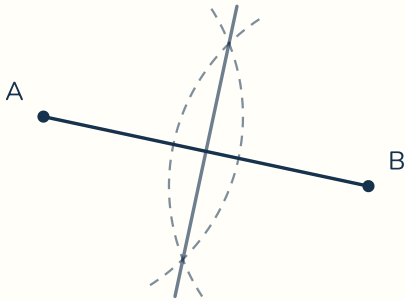
Compass constructions — Bisect a segment

Name: _____

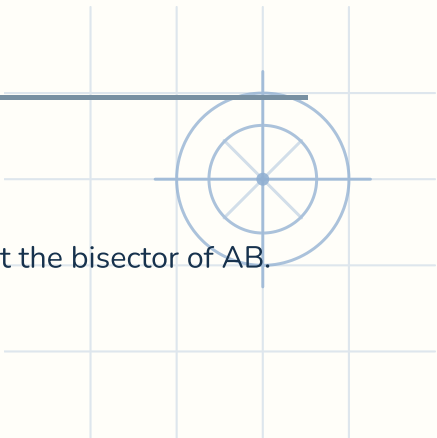
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Construct each perpendicular bisector. Leave your arcs showing.

1 Construct the bisector of AB.



2 Construct the bisector of AB.



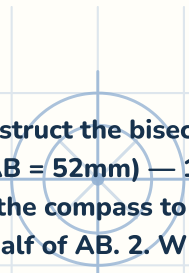
3 Construct the bisector of AB.



4 Construct the bisector of AB.



Compass constructions · Bisect a segment — Answer key



1. Construct the bisector of AB. (AB = 44mm) — 1.
Open the compass to more than half of AB. 2. With the point on A, draw arcs above and below the segment. 3. Keeping the same opening, do the same from B. 4. Draw the line through the two crossings. It cuts AB in half, at a right angle.

2. Construct the bisector of AB. (AB = 54mm) — 1.
Open the compass to more than half of AB. 2. With the point on A, draw arcs above and below the segment. 3. Keeping the same opening, do the same from B. 4. Draw the line through the two crossings. It cuts AB in half, at a right angle.

3. Construct the bisector of AB. (AB = 42mm) — 1.
Open the compass to more than half of AB. 2. With the point on A, draw arcs above and below the segment. 3. Keeping the same opening, do the same from B. 4. Draw the line through the two crossings. It cuts AB in half, at a right angle.

4. Construct the bisector of AB. (AB = 52mm) — 1.
Open the compass to more than half of AB. 2. With the point on A, draw arcs above and below the segment. 3. Keeping the same opening, do the same from B. 4. Draw the line through the two crossings. It cuts AB in half, at a right angle.