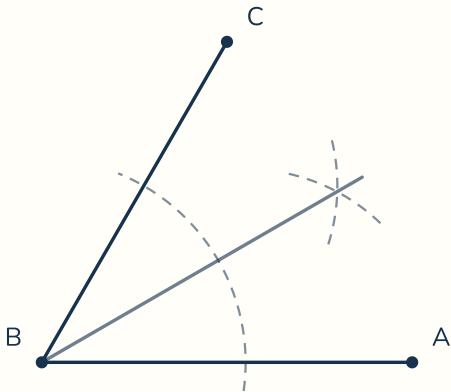


Compass constructions — Bisect an angle

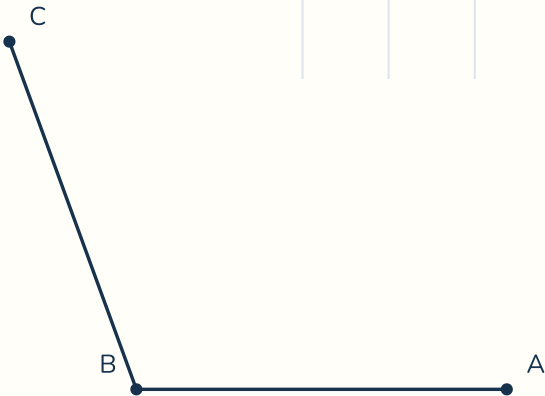
Name: _____

Bisect each angle. Leave your arcs showing.

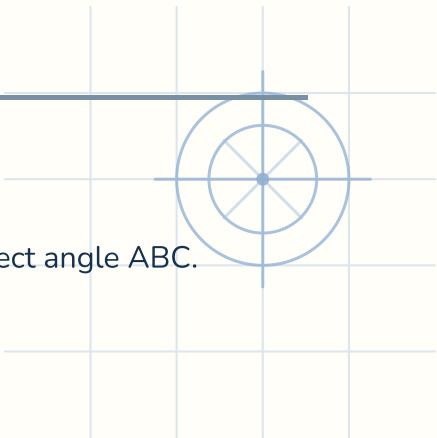
1 Bisect angle ABC.



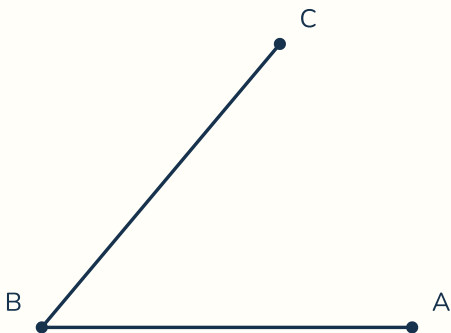
2 Bisect angle ABC.



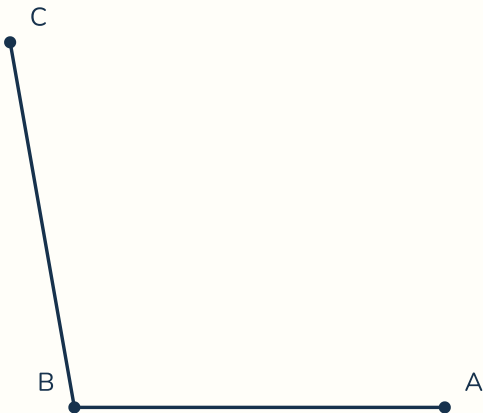
Date: _____



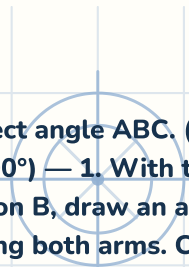
3 Bisect angle ABC.



4 Bisect angle ABC.



Compass constructions · Bisect an angle — Answer key



1. Bisect angle ABC. (angle $B = 60^\circ$) — 1. With the point on B, draw an arc crossing both arms. Call the crossings P and Q. 2. With the point on P, draw an arc inside the angle. 3. Keeping the same opening, do the same from Q. 4. Draw the line from B through where the two arcs cross. It halves the angle.

2. Bisect angle ABC. (angle $B = 110^\circ$) — 1. With the point on B, draw an arc crossing both arms. Call the crossings P and Q. 2. With the point on P, draw an arc inside the angle. 3. Keeping the same opening, do the same from Q. 4. Draw the line from B through where the two arcs cross. It halves the angle.

3. Bisect angle ABC. (angle $B = 50^\circ$) — 1. With the point on B, draw an arc crossing both arms. Call the crossings P and Q. 2. With the point on P, draw an arc inside the angle. 3. Keeping the same opening, do the same from Q. 4. Draw the line from B through where the two arcs cross. It halves the angle.

4. Bisect angle ABC. (angle $B = 100^\circ$) — 1. With the point on B, draw an arc crossing both arms. Call the crossings P and Q. 2. With the point on P, draw an arc inside the angle. 3. Keeping the same opening, do the same from Q. 4. Draw the line from B through where the two arcs cross. It halves the angle.