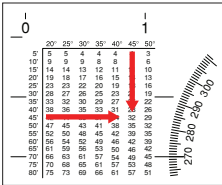
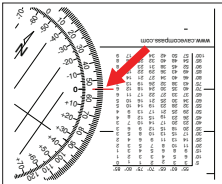


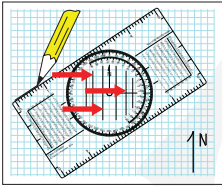
PLAN VIEW



1. Approximate corrected distance using the cosine chart.
 Note: This step is only required if the shot inclination is greater than or equal to 20°.

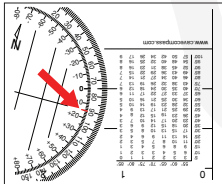


2. Using the center line mark, set azimuth by spinning the compass dial. Verify backsight shots by reading the value off the opposite side of the compass dial.

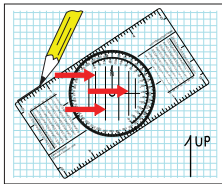


3. Align north parallels on the compass dial to sketch book grid (North) and draw the shot line using the ruler edge.

PROFILE



1. Spin the compass dial to set inclination using the inner set of numbers and the mark left of the "90" (East). Reverse signs (+,-) when you plot right to left.



2. Align north parallels on the compass dial to sketch book grid (up) and draw the shot line using the ruler edge.

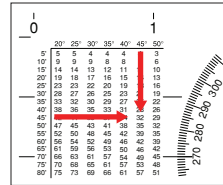
IMPORTANT: When your Cave Compass first gets dirty you may experience some difficulty spinning the compass dial. This is normal and will improve with use.

TIPS & TRICKS

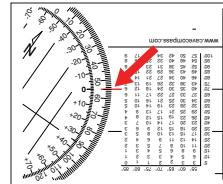
- if your exact distance isn't on the chart, extrapolate between chart values to approximate corrected distance
- if you need exact corrected distances, plot the profile first then measure the horizontal distance created by the shot line
- the chart is split into two pieces; pick the right chart by always thinking of the inclination first
- if you find the compass dial hanging off the page, shift it back onto the page and use the opposite ruler edge to plot
- increase the life and overall clarity of your Cave Compass by rinsing it between trips



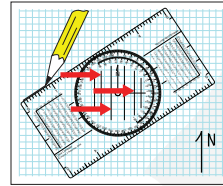
PLAN VIEW



1. Approximate corrected distance using the cosine chart.
 Note: This step is only required if the shot inclination is greater than or equal to 20°.

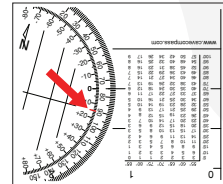


2. Using the center line mark, set azimuth by spinning the compass dial. Verify backsight shots by reading the value off the opposite side of the compass dial.

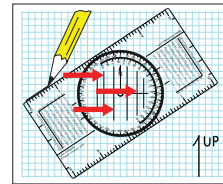


3. Align north parallels on the compass dial to sketch book grid (North) and draw the shot line using the ruler edge.

PROFILE



1. Spin the compass dial to set inclination using the inner set of numbers and the mark left of the "90" (East). Reverse signs (+,-) when you plot right to left.



2. Align north parallels on the compass dial to sketch book grid (up) and draw the shot line using the ruler edge.

IMPORTANT: When your Cave Compass first gets dirty you may experience some difficulty spinning the compass dial. This is normal and will improve with use.

TIPS & TRICKS

- if your exact distance isn't on the chart, extrapolate between chart values to approximate corrected distance
- if you need exact corrected distances, plot the profile first then measure the horizontal distance created by the shot line
- the chart is split into two pieces; pick the right chart by always thinking of the inclination first
- if you find the compass dial hanging off the page, shift it back onto the page and use the opposite ruler edge to plot
- increase the life and overall clarity of your Cave Compass by rinsing it between trips