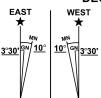
DETERMINING DISTANCE TRAVELED (WITHOUT GPS)

| | PACES | METERS |
|------------------------------------|-------|--------|
| EASY, FLAT TERRAIN —— | 66 | 100 |
| ROUGHER TERRAIN WITH SOME SLOPE | 75 | 100 |
| | | |

STEEP / ROUGH TERRAIN - 95

Based on average human stride. Verify your pace count before going to the field. One pace is every time the left foot touches the ground (2 steps).

DECLINATION



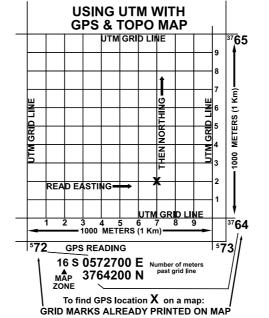
CLINATION
True North is aligned with the longitude lines on the map. Grid North (GN) aligns with the UTM lines on the map. Magnetic North (MN) is aligned with a compass needle. For WEST add the Dec. value to the compass bearing. For EAST subtract the Dec. from the compass bearing. EAST IS LEAST, WEST IS BEST. bearing. EAST IS L WEST IS BEST.

TO TRAVEL AN AZIMUTH

Use a protractor or compass to determine an azimuth you wish to travel. Rotate the compass bezel until that degree lines up with the index mark on the compass base. Adjust for declination (if required). Place the compass flat in your hand with the index mark pointing in front of you. Rotate your body until the red compass needle aligns with the red outline. Travel this azimuth by sighting an object along your desired path of travel (tree, rock, bushes, lake, etc.) and walk to it. Once you reach the object, find another on the same azimuth and repeat the process.

| MAGNETIC DECLINATION CORRECTION | | | | |
|---------------------------------|----------|----------|--|--|
| | EAST | WEST | | |
| MAP TO COMPASS: | Subtract | Add | | |
| COMPASS TO MAP: | Add | Subtract | | |

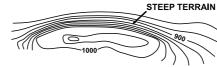
NEVER TRUST A GPS OR OTHER ELECTRONIC DEVICE AS YOUR SOLE METHOD FOR NAVIGATION. ALWAYS CARRY A MAGNETIC COMPASS AND KNOW HOW TO USE IT! ALWAYS VERIFY THE MAP DATUM SET IN THE GPS MATCHES THE DATUM PRINTED ON THE MAP. COMMON DATUMS INCLUDE NAD 27 CONUS, NADB3 AND WGS84, WHEN USING UTM SET THE POSITION FORMAT IN THE GPS UNIT TO UTM UPS. ALWAYS VERIFY YOUR MAP LOCATION BY USING TERRAIN ASSOCIATION AND COMPASS SKILLS.



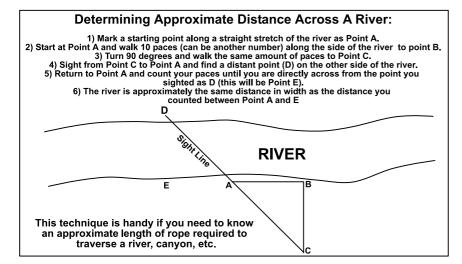
(1) On the map, find the 1000 meter square grid from the grid marks on the map. (2) Using the proper map scale card, measure the number of meters Easting (last 3 digits on the "E" GPS reading) from the left grid line (example above shows 700 meters). (3) Measure the number of meters Northing along the North grid line (example above shows 200 meters). The intersection is your location on the map.

CONTOUR LINES

The closer the contour lines, the steeper the terrain. Check the map for the contour intervals. Contour lines will also have elevation markings.



Example above shows a map with contour intervals of 20 feet



SHORT-TERM SURVIVAL TIPS

Lost: Only move if necessary. Stay put if injured / confused. Make shelter and signals. If you move, leave signs to indicate your direction of travel.

Shelter: Build shelter only big enough for the number of people needing it. Choose a location that protects from the environment. Try to face shelter Southeast towards the sun to provide the longest heat and direct light.

Signaling: Three fires in a triangle or row is an international distress signal Placing green vegetation on top of fires will make thick white smoke for signaling in the daytime.

> RANDALL'S ADVENTURE & TRAINING® eseeknives.com

ADVENTURA

ESEE

ALABAMA

REQUIRE FOOD AND WATER

GROUND TO AIR DISTRESS SIGNALS

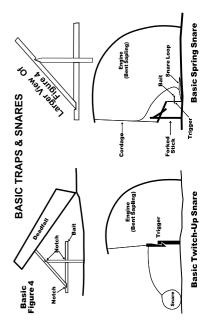


AM TRAVELING IN THIS DIRECTION



100 METERS = 109.3 YARDS 100 METERS = 109.3 YARDS 100 YARDS = 91.4 METERS 1 METER = 3.28 FEET 1 FOOT = .305 METERS 1 KILOMETER = .621 MILE 1 MILE = 1.61 KILOMETER 1000 METERS = 1 KILOMETER 1 INCH = 2.54 CM

CONVERSIONS



FIRE BUILDING

Fire building is a step-by-step process with preparation being the key to success. Sources for reliable tinder that will catch readily from the spark of a Ferro rod are magnesium scraped from the Ferro rod holder, bird and mouse nests, various tree barks, dead grasses, pocket lint, and dry leaves. Once you have a good tinder bundle, gather progressively larger wood and have this ready before you light the tinder. It may be necessary to build a makeshift fire shelter to protect your startup fire from heavy rains. When gathering firewood, always search out standing dead wood since it sheds more water than wood laying on the ground. As soon as your tinder begins to blaze place very small pieces As soon as your tinder begins to blaze place very small pieces of dry wood on the tinder bundle. Slowly and progressively build your fire bigger.

Table of tan(angle)

| Angle | tan(a) | Angle | tan(a) | Object Of Unknown Distance |
|-------|--------|-------|----------|--|
| 0.0 | 0.00 | 46.0 | 1.0355 | l १ |
| 1.0 | .0175 | 47.0 | 1.0724 | l /\ |
| 2.0 | .0349 | 48.0 | 1.1106 | I 4 / \ |
| 3.0 | .0524 | 49.0 | 1.1504 | 8 /~ /~ |
| 4.0 | .0699 | 50.0 | 1.1918 | ŧ |
| 5.0 | .0875 | 51.0 | 1.2349 | North Reference Azimuth 1 |
| 6.0 | .1051 | 52.0 | 1.2799 | # <i> </i> 5 \5 |
| 7.0 | .1228 | 53.0 | 1.3270 | North Reference Azimuth 1 Azimuth 2 |
| 8.0 | 1405 | 54.0 | 1.3764 | l // \ |
| 9.0 | .1584 | 55.0 | 1.4281 | 1 // \ |
| 10.0 | .1763 | 56.0 | 1.4826 | \ 90° \ |
| 11.0 | .1944 | 57.0 | 1.5399 | Point 1 |
| 12.0 | .2126 | 58.0 | 1,6003 | Point 2 |
| 13.0 | .2309 | 59.0 | 1.6643 | |
| 14.0 | .2493 | 60.0 | 1.7321 | ~ |
| 15.0 | .2679 | 61.0 | 1.8040 | 1 2 |
| 16.0 | .2867 | 62.0 | 1.8907 | ļ <u>.</u> |
| 17.0 | .3057 | 63.0 | 1.9626 | es & Point 2 |
| 18.0 | .3249 | 64.0 | 2.0503 | ్ల త |
| 19.0 | .3443 | 65.0 | 2.1445 | |
| 20.0 | 3640 | 66.0 | 2.2460 | 말음 |
| 21.0 | .3839 | 67.0 | 2.3559 | |
| 22.0 | .4040 | 68.0 | 2.4751 | 5,29 |
| 23.0 | .4245 | 69.0 | 2.6051 | , <u>, , , , , , , , , , , , , , , , , , </u> |
| 24.0 | .4452 | 70.0 | 2.7475 | |
| 25.0 | .4663 | 71.0 | 2.9042 | # 5# 3 \$ |
| 26.0 | .4877 | 72.0 | 3.0777 | Ref t an d b |
| 27.0 | .5095 | 73.0 | 3.2709 | × <u> </u> |
| 28.0 | .5317 | 74.0 | 3.4874 | ⊜ <u>12</u> 8821 |
| 29.0 | .5543 | 75.0 | 3.7321 | |
| 30.0 | .5773 | 76.0 | 4.0108 | is a see |
| 31.0 | .6009 | 77.0 | 4.3315 | |
| 32.0 | .6249 | 78.0 | 4.7046 | 0 35,58 |
| 33.0 | 6494 | 79.0 | 5.1446 | S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 34.0 | .6745 | 80.0 | 5.6713 | = 3 % T = % |
| 35.0 | .7002 | 81.0 | 6.3138 | IATION: d = (Tan (90 - (A -B))) x Ref Distance (to be calculated) = Tangent value of the resultant angle cateer value of the two measured bearing angles Lower value of the two measured bearing angles = Measured reference distance between Point 1 & |
| 36.0 | .7265 | 82.0 | 7.1154 | Leer al |
| 37.0 | .7535 | 83.0 | 8.1443 | # #### # # # # # # # # # # # # # # # |
| 38.0 | .7813 | 84.0 | 9.5144 | |
| 39.0 | .8098 | 85.0 | 11.430 | # 5 P P S Z Z |
| 40.0 | .8391 | 86.0 | 14.301 | <u>ë e 57 5. ta 0 </u> |
| 41.0 | .8693 | 87.0 | 19.081 | Gre Til |
| 42.0 | 9004 | 88.0 | 28.636 | 2 5 5 5 |
| 43.0 | 9325 | 89.0 | 57.290 | EQUATION: d = (Tan (90 - (A -B))) x Ref d = Distance (to be calculated) Tan = Tangent value of the resultant angle A = Greater value of the two measured bearing angles B = Lower value of the two measured bearing angles Ref = Measured reference distance between Point 1 i |
| 44.0 | .9657 | 90.0 | Infinite | m 2-49E |
| 45.0 | 1.000 | | | |

ESCAPE & EVASION TIPS

Maintain A Positive Attitude Be Aware Of Escape Opportunities During Transit Best Escape Chance May Exist During Initial Capture Plan Your Evasion Before Attempted Escape Plan Your Evasion Before Attempted Escape
Get Outside The Attacking Force Perimeter
Gather As Many Tools As Possible
Stay Out of Sight Once You Begin To Move
Camouflage To Fit The Environment
Keep Shelters Small, Irregular & Secluded Build No Fire Unless Absolutely Necessary
Travel During Rain, Wind Or Other Noises
Disable Non-Essential Electronic Devices
Move Sporadic - Not On An Azimuth Practice Noise And Light Discipline
Defeat The Tracking Dog Handler, Not The Dog