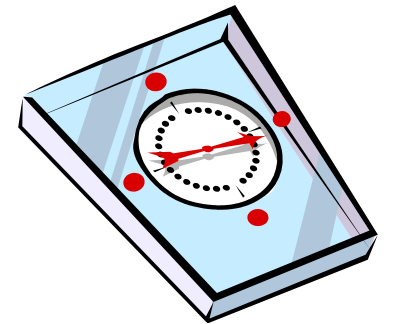




Map and Compass

GPS works with Magnetic compass

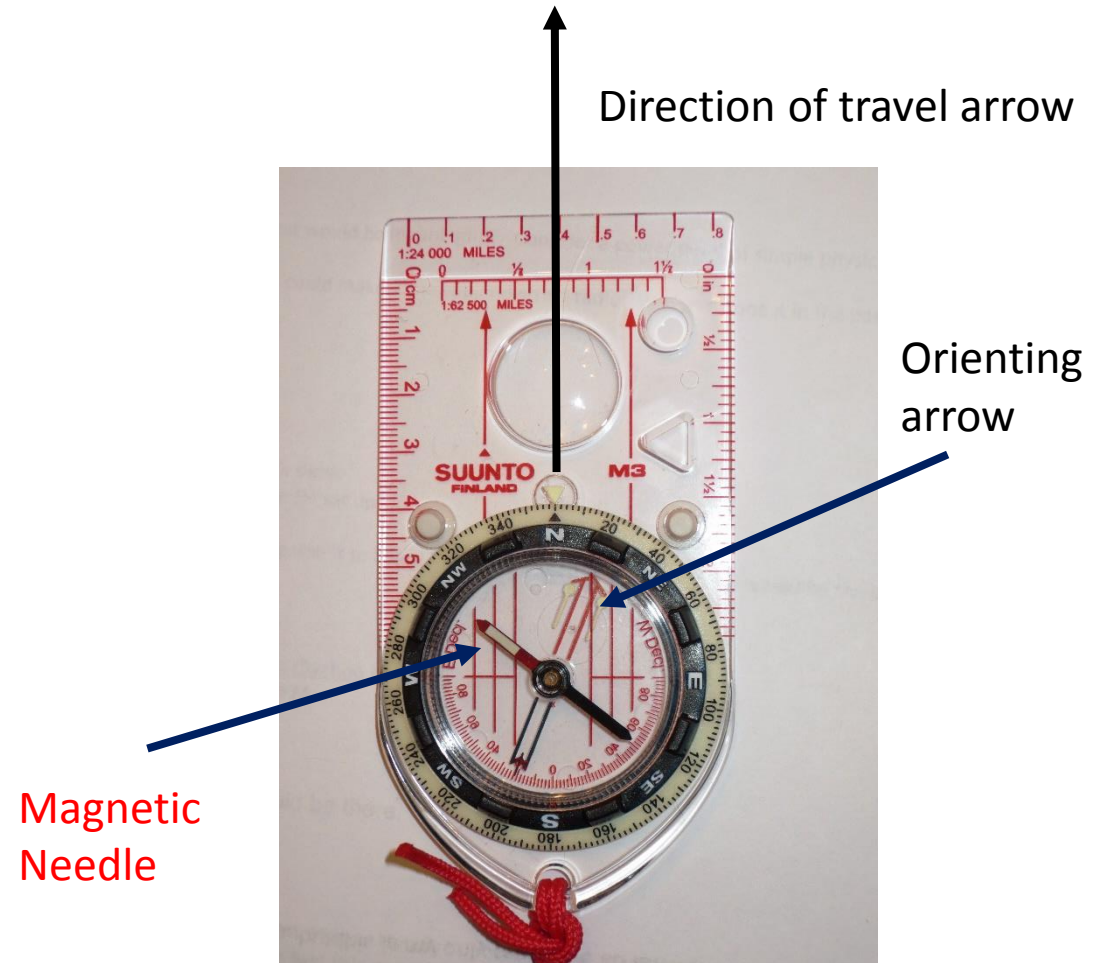
IC 31a radio keeps all in touch



Magnetic Compass – showing True North offset

1. The Earth has a magnetized field with a north Pole and South Pole.
2. The Magnetized needle points toward the North Pole And the South Pole.
3. The Magnetic North Pole is 20 degree East of the True North Pole in Washington State. Note the Orienting arrow Is offset by 20 degrees.
4. The compass point to True North when the Magnetic Needle is oriented over the Orienting arrow.
5. The Bearing or direction of travel is now True North.
6. Now the Compass will read like the GPS compass on the IC-31

Read Direction of travel Bearing for East, South, West and True North



Compass is a 360 degree Circle
Show 90, 180, 270 and 360 degrees

Compass Games—Simon Says

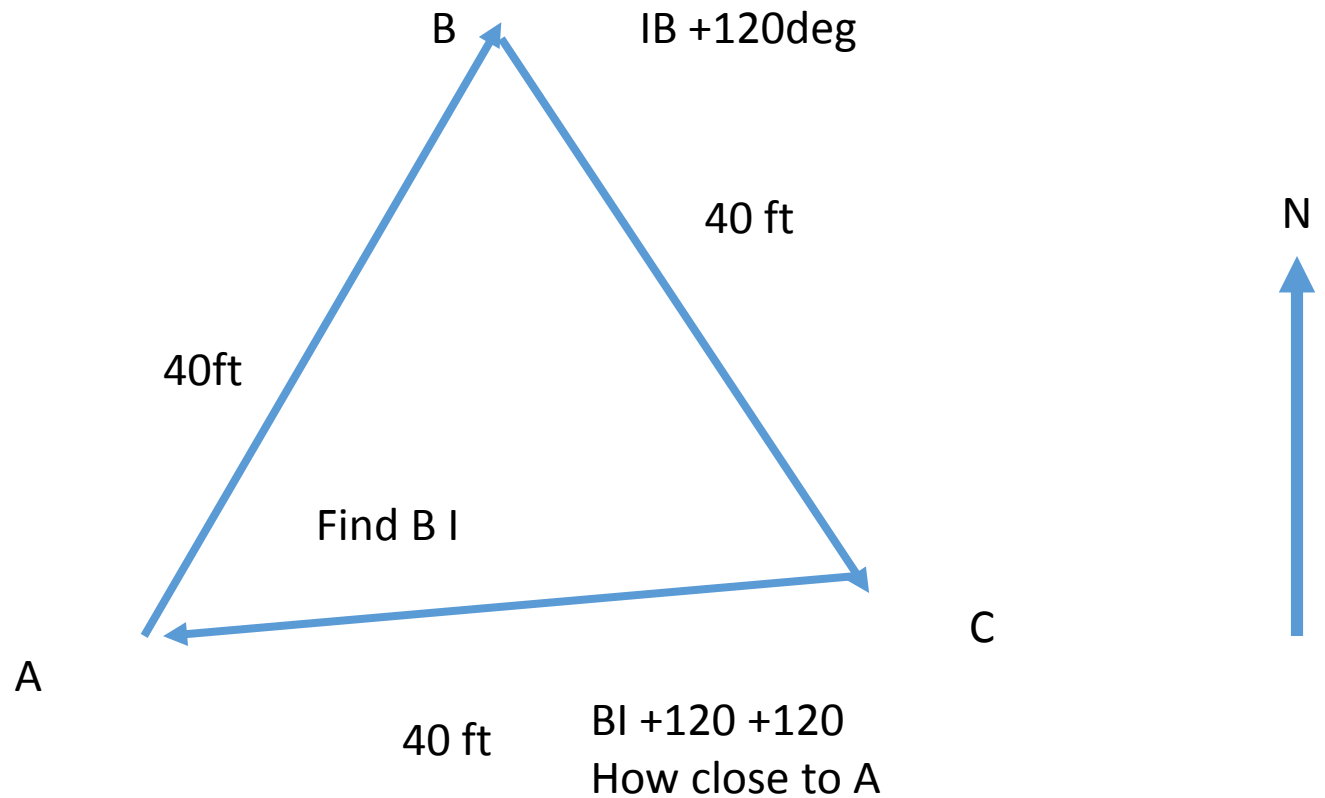
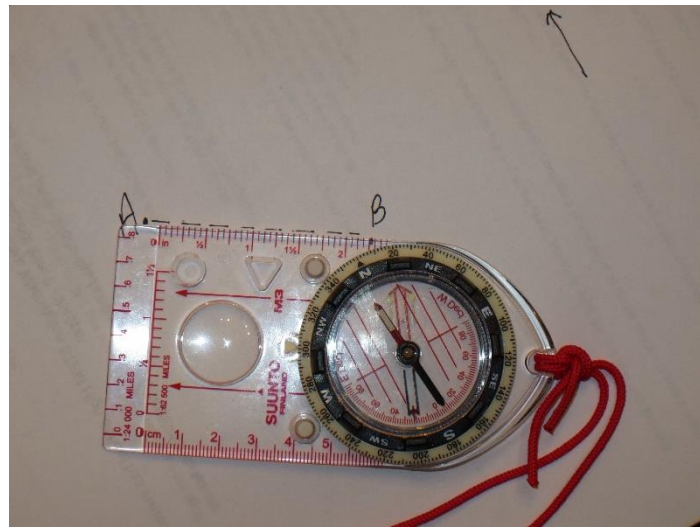
1. Scouts face True North
2. Right arm point East 90 deg
3. Left Arm points West
4. Back is South 180 deg.

1. Simon Says – Face South
2. Simon Says – Face West
3. Simon Says – Face East
4. Face South
5. Patol Leader leads

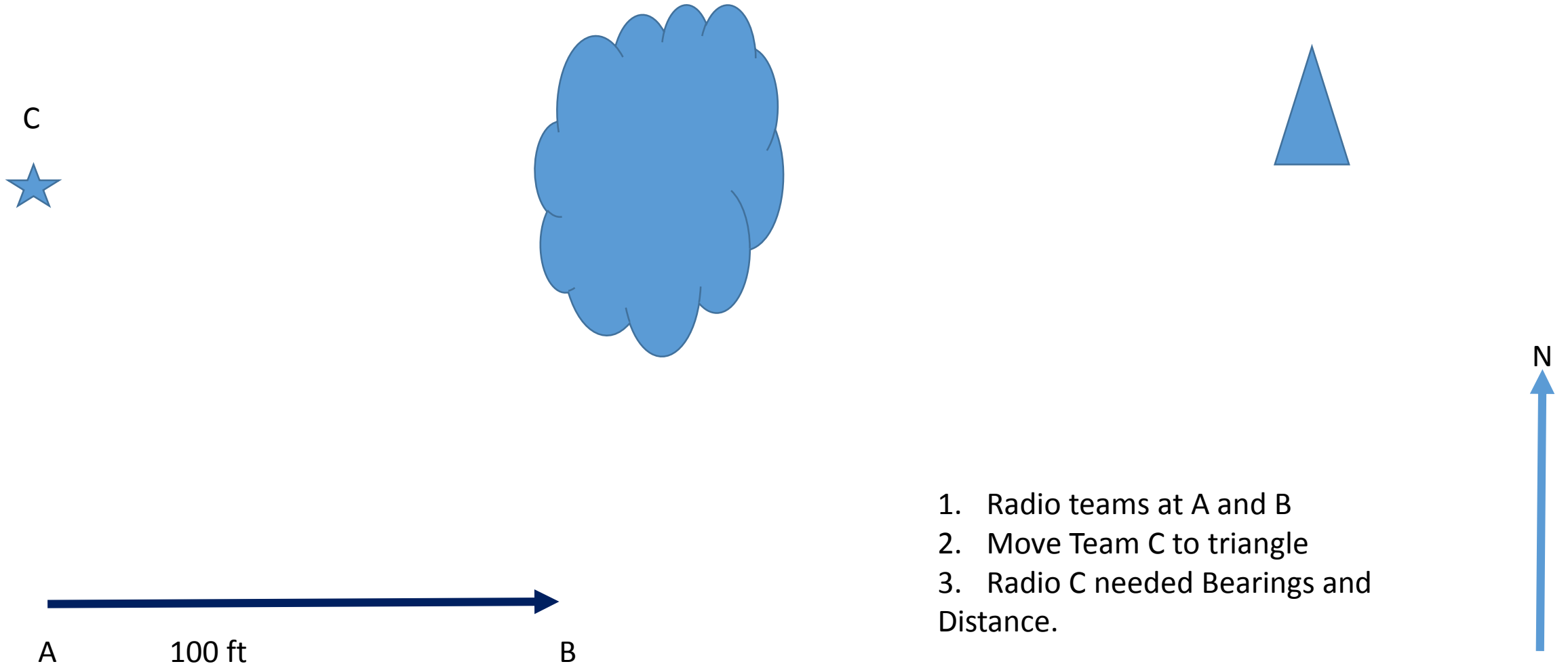
Find True Bearing with Magnetic Compass

Three Legged Compass Walk

1. Start from base point and walk a True Bearing 40 feet
2. Add 120 degrees to initial bearing and walk 40 feet.
3. Add 120 degrees to again and walk 40 feet.
4. Should be at Starting point.

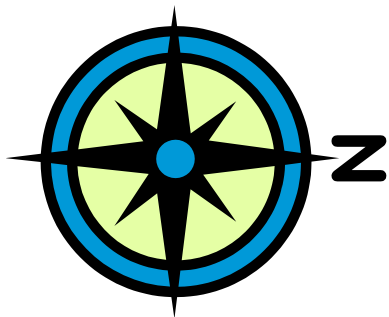
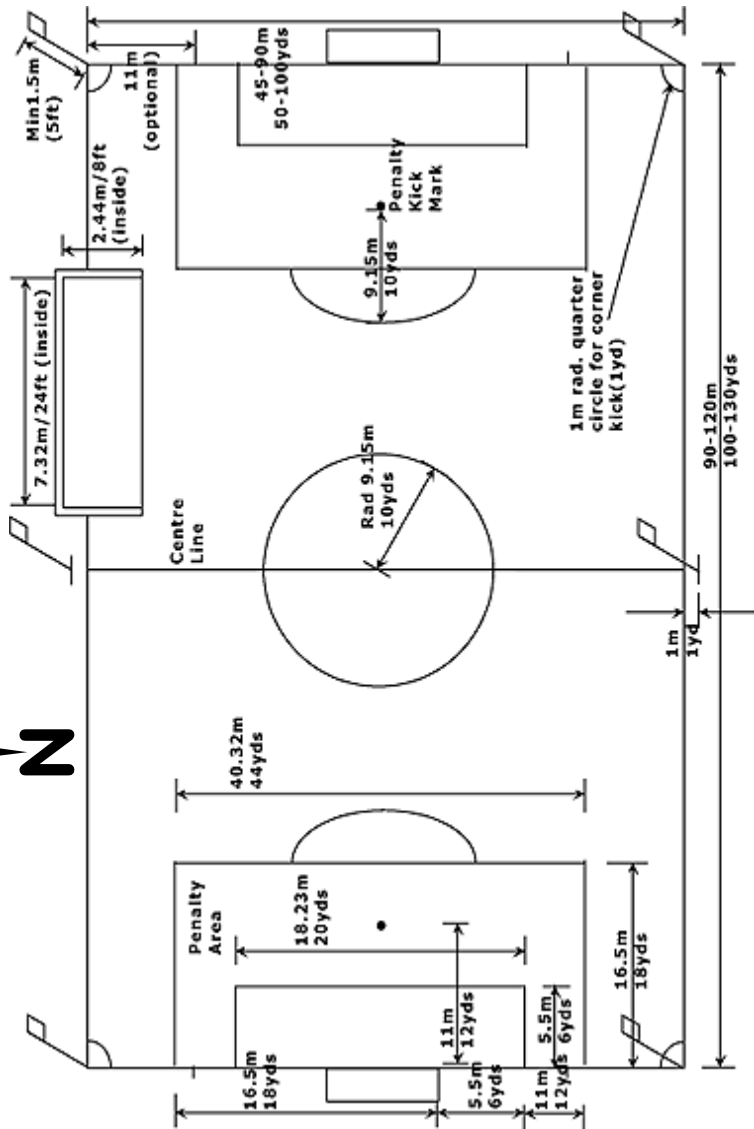


Radio Teams A and B move Patrol C around Rock Pile to Triangle



1. Radio teams at A and B
2. Move Team C to triangle
3. Radio C needed Bearings and Distance.

Soccer field with Magnetic compass and GPS



Game can use Compass for GPS. Patrols receive bearing and distance to move by radio.

1. Soccer Field 100 yds by 50 Yds; Scale line 40 feet / inch scale; Draw on 8 ½ x 11
2. Add Scale line and compass; Print and orientate.
3. Scouts Establish Pace and Orientate map North
4. Patrol 1 Start NE corner Bearing 315 deg. 75 ft;
5. Patrol 2 Start NW corner Bearing 135 deg. 75 ft
6. Patrol 3 Start SW corner Bearing 45 deg 75 ft
7. Patrol 4 Start SE corner Bearing 315 drg. 75 ft
8. Include second step as bearing and sin function for distance.
9. Link 3 will be supplied by radio.
10. Questions by radio to PL APL
11. Show last as bearing and distance for field center.
12. Win on time and finish point
13. Run field twice with Mag compass and GPS..