

## Flat Open Field Navigation:

This is an individual exercise for students. They are to work this exercise alone then re-connect with their partner upon completion. Provide assistance until they "get it".

Student instructions: Starting at the numbered marker that you were assigned, walk the first bearing and distance in your route to arrive at the next marker. When you have arrived at the correct marker, write down the correct letter or number in the blank below. Continue to the next marker in your assigned route until you arrive at the final marker. **Be sure to write down each marker that you arrive at.** Each route has two markers you will not walk to but will determine by shooting a bearing and estimating the distance from where you stand.

When you have finished your assigned route, return to the volunteer (s), who will check your answers to see if you completed the assigned route correctly.

**Route Starting at #1** walk bearing of  $90^\circ$  for 150 feet to arrive at marker   E  .

From your location set your compass to  $160^\circ$  and walk in that direction 189 feet to arrive at marker   R  .

Staying at your current marker, turn and look for marker G. What is the bearing?    $0^\circ$   

Optional – estimate the distance   187'   Now turn south. Look for marker V. What bearing is it at?    $190^\circ$    Optional – estimate the distance   62'  

Next set your compass to  $142^\circ$  and walk following that bearing for 52 feet to arrive at marker   W  .

From your current marker turn and walk a bearing of  $308^\circ$  for 292 feet to arrive at marker   2  .

Find a volunteer to check your answers.

**Route Starting at #2** Set your compass to  $74^\circ$  and walk 221 feet to arrive at marker   H  .

From your current location turn and walk a bearing of  $179^\circ$  for 111 feet to arrive at marker   N  .

From this location turn and walk at a bearing of  $205^\circ$  for 83 feet to arrive at marker   R  .

Standing at your current marker, turn and locate marker E. What bearing is E?    $343^\circ$   

Optional – estimate the distance   190'  . Now turn to the NW. Find letter I(i). What bearing is it?

   $319^\circ$   . Optional – estimate the distance   157'  .

From your current marker, set your compass to a bearing of  $290^\circ$  and walk 176 feet to arrive at

marker   3  . Find a volunteer to check your answers.

**Route Starting at #3** Set your compass to a bearing of  $67^\circ$  and walk 146 feet to arrive at marker J.

From your current location turn and look for Marker F. What bearing is it?  $359^\circ$ . Optional –

estimate the distance 67'. Now face south, look for marker R. What bearing is it?  $167^\circ$ .

Optional – estimate the distance 119'

From your current marker, set your compass to a bearing of  $194^\circ$  turn and walk 178 feet following

that bearing to arrive at marker U. From your current marker turn to a bearing of  $338^\circ$  and

walk that bearing for 251 feet to arrive at marker A. From your current marker set your

compass to a bearing of  $176^\circ$  and walk 114 feet in that direction to arrive at marker 3.

Find a volunteer to check your answers.

**Route Starting at #4** Begin at marker #4, set your compass to a bearing of  $115^\circ$  and walk 151 feet following that bearing to arrive at marker V.

From your current location turn and walk a bearing of  $336^\circ$  for 139 feet to arrive at marker M.

From your current marker turn and shoot a bearing of  $322^\circ$  and walk in that direction for 136 feet to arrive at marker B. Starting at your current location locate marker P. What bearing is it?

$166^\circ$ . Optional – estimate the distance 179'. Now turn to the SE and look for marker

K. What bearing is it  $108^\circ$ . Optional – estimate the distance 204'. From your current

marker turn to a bearing of  $176^\circ$  and walk 229 feet to arrive at marker 5. Find a volunteer to check your answers.

**Route Starting at #5** Set your compass to  $348^\circ$ . Walk that bearing for 232 feet to arrive at marker A.

From your current location shoot a bearing of  $109^\circ$ . Walk 326 feet to arrive at marker O.

Staying at your current location, turn and look for the letter H. What is the bearing of H?

$312^\circ$ . Optional – estimate the distance 145'. Turn SSW and look for marker

S. What is its bearing?  $221^\circ$ . Optional – estimate the distance 100'

From your current marker, set your compass to  $236^\circ$  and follow that bearing for 157 feet to arrive at marker R.

From your current marker shoot a bearing of  $311^\circ$  and walk 270 feet to arrive at

marker 1. Find a volunteer to check your answers.