



Land Navigation Practical Exercises



You are located on at OP A at **WF 699550**. You see an enemy platoon on a magnetic azimuth of 352 degrees. OP B is located at **WF 716566** and sees the same platoon on a magnetic azimuth of 281 degrees.

What is the location of the enemy platoon to the nearest 100 meters?



OP A

Location: WF 699550
Direction: 352 degrees MAG
Convert to Grid: + 21
Direction: 13 degrees GRID

OP B

Location: WF 716566
Direction: 281 degrees MAG
Convert to Grid: +21
Direction: 302 degrees GRID

Enemy Platoon Located at WF 704574



You are located on at OP A at **WF 733536**. You see an enemy platoon on a magnetic azimuth of 205 degrees. OP B is located at **WF 730506** and sees the same platoon on a magnetic azimuth of 263 degrees.

What is the location of the enemy platoon to the nearest 100 meters?



OP A

Location: WF 733536
Direction: 205 degrees MAG
Convert to Grid: + 21
Direction: 226 degrees GRID

OP B

Location: WF 730506
Direction: 263 degrees MAG
Convert to Grid: +21
Direction: 284 degrees GRID

Enemy Platoon Located at WF 708512



INTERSECTION

You are located on at OP A at **WF 69604720**. You see an enemy platoon on a magnetic azimuth of 52 degrees.

OP B is located at **WF 72254750** and sees the same platoon on a magnetic azimuth of 244 degrees.

What is the location of the enemy platoon to the nearest 10 meters?



OP A

Location: WF 69604720
Direction: 52 degrees MAG
Convert to Grid: + 21
Direction: 73 degrees GRID

OP B

Location: WF 72254750
Direction: 244 degrees MAG
Convert to Grid: +21
Direction: 265 degrees GRID

Enemy Platoon Located at WF69854728



You are located on at OP A at **WF 69944592**. You see an enemy platoon on a magnetic azimuth of 112 degrees. OP B is located at **WF 71474595** and sees the same platoon on a magnetic azimuth of 188 degrees.

What is the location of the enemy platoon to the nearest 10 meters?



OP A

Location: WF 69944592
Direction: 112 degrees MAG
Convert to Grid: + 21
Direction: 133 degrees GRID

OP B

Location: WF 71474595
Direction: 188 degrees MAG
Convert to Grid: +21
Direction: 209 degrees GRID

Enemy Platoon Located at WF 70924500



You are located on at OP A at **WF 72254745**. You see an enemy platoon on a magnetic azimuth of 102 degrees. OP B is located at **WF 71574554** and sees the same platoon on a magnetic azimuth of 60 degrees.

What is the location of the enemy platoon to the nearest 10 meters?



OP A

Location: WF 72254745

Direction: 102 degrees MAG

Convert to Grid: + 21

Direction: 123 degrees GRID

OP B

Location: WF 71574554

Direction: 60 degrees MAG

Convert to Grid: +21

Direction: 81 degrees GRID

Enemy Platoon Located at WF 74454599



You can see the peak at WF 636419 on a magnetic azimuth of 125 degrees. You can also see the peak located at WF 639435 on a magnetic azimuth of 57 degrees.

What is your location to the nearest 100 meters?



KP 1

Location: WF 636419

Direction: 125 degrees MAG

Convert to Grid: + 21

Direction: 146 degrees GRID

Find Back Azimuth: +180 degrees

Back Azimuth: 326 degrees GRID

KP 2

Location: WF 639435

Direction: 57 degrees MAG

Convert to Grid: +21

Direction: 78 degrees GRID

+180 degrees

Back Azimuth: 258 degrees GRID

You Are Located at WF 627433



You can see the peak at WF 639517 on a magnetic azimuth of 137 degrees. You can also see the peak located at WF 628513 on a magnetic azimuth of 207 degrees.

What is your location to the nearest 100 meters?



KP 1

Location: WF 639517

Direction: 137 degrees MAG

Convert to Grid: + 21

Direction: 158 degrees GRID

Find Back Azimuth: +180 degrees

Back Azimuth: 338 degrees GRID

KP 2

Location: WF 628513

Direction: 207 degrees MAG

Convert to Grid: +21

Direction: 228 degrees GRID

-180 degrees

Back Azimuth: 48 degrees GRID

You Are Located at WF 637522



“Help I just got my platoon lost, where are we Sarge”?

You can see the peak in WF 6656 on a magnetic azimuth of 272 degrees. You can also see the peak located in WF 6554 on a magnetic azimuth of 196 degrees.

What is your location to the nearest 10 meters?



KP 1

Location: WF 6656

Direction: 272 degrees MAG

Convert to Grid: + 21

Direction: 293 degrees GRID

Find Back Azimuth: -180 degrees

Back Azimuth: 113 degrees GRID

KP 2

Location: WF 6554

Direction: 196 degrees MAG

Convert to Grid: +21

Direction: 217 degrees GRID

-180 degrees

Back Azimuth: 37 degrees GRID

You Are Located at WF 66975645



You can see the peak at WF 61655415 on a magnetic azimuth of 35 degrees. You can also see the peak located at WF 60925150 on a magnetic azimuth of 131 degrees.

What is your location to the nearest 10 meters?



KP 1

Location: WF 61655415

Direction: 35 degrees MAG

Convert to Grid: + 21

Direction: 56 degrees GRID

Find Back Azimuth: +180 degrees

Back Azimuth: 236 degrees GRID

KP 2

Location: WF 60925150

Direction: 131 degrees MAG

Convert to Grid: +21

Direction: 152 degrees GRID

+180 degrees

Back Azimuth: 332 degrees GRID

You Are Located at WF 60095311



You can see the peak at WF 69704405 on a magnetic azimuth of 238 degrees. You can also see the peak located at WF 72104305 on a magnetic azimuth of 108 degrees.

What is your location to the nearest 10 meters?



KP 1

Location: WF 69704405

Direction: 238 degrees MAG

Convert to Grid: + 21

Direction: 259 degrees GRID

Find Back Azimuth: -180 degrees

Back Azimuth: 79 degrees GRID

KP 2

Location: WF 72104305

Direction: 108 degrees MAG

Convert to Grid: +21

Direction: 129 degrees GRID

+180 degrees

Back Azimuth: 309 degrees GRID

You Are Located at WF 70704421



THE END