

Exercise 4 Direction

Scenario:

We have been dropped on C-Hill outside of Carson City by helicopter as part of a fitness training exercise and left with only a compass, map, pencil, and protractor scale. We are told that we have to be at the Premier Mine in 2 hours if we want to be picked up for a ride back to the office. We have to find it and be sure we arrive at the pickup point. To test our skills and to be sure we know what we are doing, find the following:

1. What is the declination you need to have your compass set at?
2. What is the bearing from C-Hill in the southeast central part of the Carson City quadrangle to the Premier Mine?
3. What is the bearing from the Premier Mine to C-Hill?
4. What is the bearing from C-Hill to the center of the athletic field in the western part of Carson City, NV?
5. What is the bearing from the athletic field in Carson City to C-Hill?
6. We pull out our compass to take a bearing along the line to the Premier Mine. Someone has switched compasses with us, and the compass we now have is an azimuth compass. We will have to determine the azimuth so we can read the compass directly for the bearing to the mine. What is the azimuth from C-Hill to the Premier Mine?

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1. What is the declination you need to have your compass set at?
15 ½ degrees to the east
2. What is the bearing from C-Hill in the southeast central part of the Carson City quadrangle to the Premier Mine?
N 83 W
3. What is the bearing from the Premier Mine to C-Hill?
S 83 E
4. What is the bearing from C-Hill to the center of the athletic field in the western part of Carson City, NV?
N 43 E
5. What is the bearing from the athletic field in Carson City to C-Hill?
S 43 W
6. We pull out our compass to take a bearing along line to the Premier Mine. Someone has switched compasses with us, and the compass we now have is an azimuth compass. We will have to determine the azimuth so we can read the compass directly for the direction to the mine. What is the azimuth from C-Hill to the Premier Mine?
277 degrees