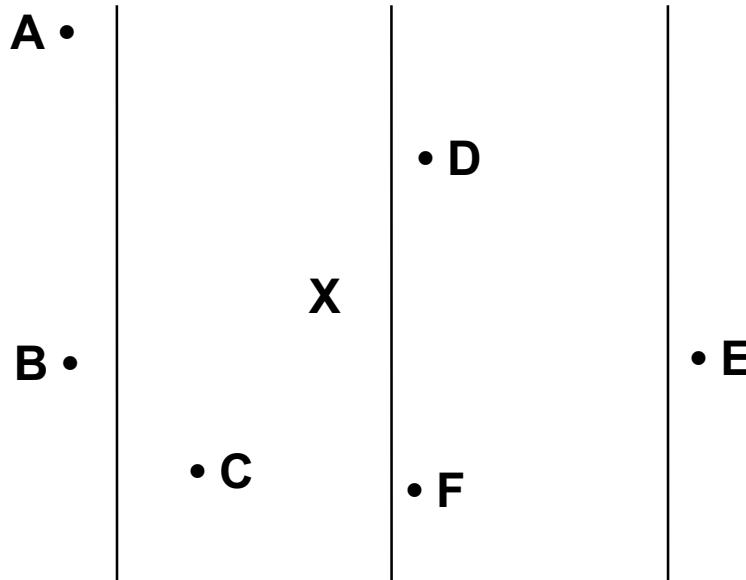


Part 2

The X on the map below shows your location. Determine the map (true) bearing from the center of X to the dot next to each letter. Select the correct bearing from the list of possible answers below and write it in the appropriate box.

Possible Answers:

34° 316° 10° 216° 100° 188° 156° 256°



X to A		X to D	
X to B		X to E	
X to C		X to F	

Part 3

Now you will be following a course from A to B, then B to C, then C to D, then D to E, and then E to F. Find the bearing for each leg of the course and enter your answer in the appropriate box. Before you could actually use these bearings, you would need to adjust for declination. If declination is 24°, determine the magnetic bearing for each leg of the course and enter your answer in the appropriate box.

	Map (True) Bearing	Magnetic Bearing
A to B		
B to C		
C to D		
D to E		
E to F		

Compass & Bearings (continued)

Name _____

Period _____

Date _____

Part 4

You plan to go hiking in the area shown on the map on the next page, but you do not know what the current declination is for the area. Follow the steps below to determine the declination.

1. You are standing at the confluence of Smith Creek and Happy River. Put a small dot at this point on the map.
2. You take a bearing to Sunny Peak and determine it is 297° . This is a magnetic bearing.
3. Use the map to determine the map (true) bearing between these two points? _____
4. What is the declination? _____

Remember: Map Bearing - Declination = Magnetic Bearing.

 Magnetic Bearing + Declination = Map Bearing.

Part 5

You are hiking in the area shown on the map on the next page, but you do not know your current location. Follow the steps below to determine your current location.

1. You determine the bearings to the following three locations (these are magnetic bearings):

Bald Mountain	10°
Sunny Peak	234°
Cabin	134°
2. Determine the map (true) bearing for each location by adjusting for declination. Remember, you are going from magnetic to map bearings this time. Use the declination you found in Part 4.

Bald Mountain _____

Sunny Peak _____

Cabin _____

3. Set the map (true) bearing to Bald Mountain on the index line of your compass.
4. Lay the long edge of your compass next to Bald Mountain, turn the entire compass (not dial) until the orienting lines are parallel to the longitude lines on the map.
5. Draw a line along the edge of the compass (extend with a ruler if necessary).
6. Repeat steps 3 through 5 for the other two bearings.
7. Your location will be where the lines cross (or inside the small triangle made by the lines).

