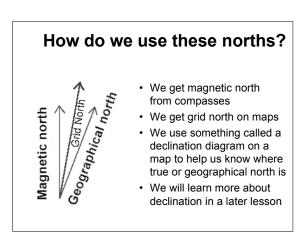
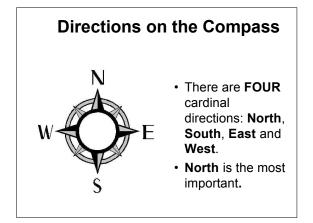




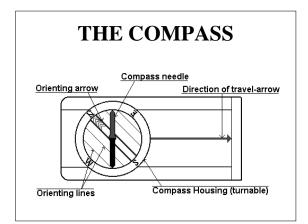
There are three types of North

- **True** (sometimes called geographic) **north** If you drew a line between where you are and the center of the North Pole, that would be true north
- Magnetic north The earth acts like a big magnet and magnetic north is the north to which a compass needle points
- **Grid north** the direction at the top (usually) of written maps

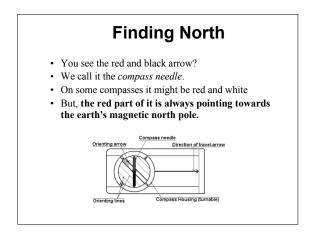








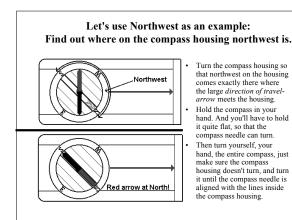






Finding other directions

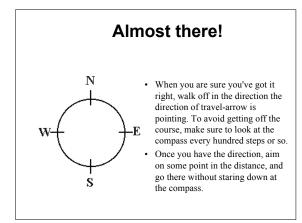
- You've got a dial that turns on your compass. We call it the *Compass housing*.
- On the edge of the compass housing, you will probably have a scale from 0 to 360.
- Those are the degrees or the *azimuth* (or you may also call it the bearing in some contexts).
- And you should have the letters N, S, W and E for North, South, West and East.
- If you want to go in a direction between two of these, you would combine them. If you would like to go in a direction just between North and West, you simply say: "I would like to go Northwest".



Still working on finding northwest...

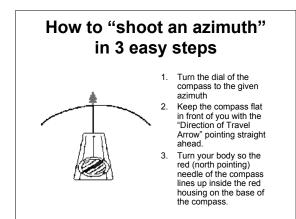
- Now, time to be careful!. It is extremely important that the red, north part of the compass needle points at north in the compass housing. If south points at north, you would walk off in the exact opposite direction of what you want! And it's a very common mistake among beginners. So always take a second look to make sure you did it right!
- A second problem might be local magnetic attractions. If you are carrying something of iron or something like that, it might disturb the arrow. Even a staple in your map might be a problem. Make sure there is nothing of the sort around.





When do you need this technique?

- If you are out there without a map, and you don't know exactly where you
 are, but you know from your experience in the area that there is a road,
 trail, stream, river or something long and big you can't miss if you go in
 the right direction...
- Then all you need to do is to turn the compass housing so that the direction you want to go in is where the direction of travel-arrow meets the housing. And follow the steps you were just shown.
- But why isn't this sufficient? First, it is not very accurate. You are going
 in the right direction, and you won't go around in circles, but you're very
 lucky if you hit a small spot this way.
- And, this requires you to have a mental image of the area you are in and what direction those landmarks might be in.
- · That's why using the compass with a map is much, much better.



Let's try some examples: Shoot an azimuth of 150°

- First, turn the dial to 150.
 Then be sure the compass is laying flat and the Direction of Travel Arrow is pointing straight ahead of you.
- Then turn your body so the red magnetic arrow is lined up within the red arrow on the compass casing.

