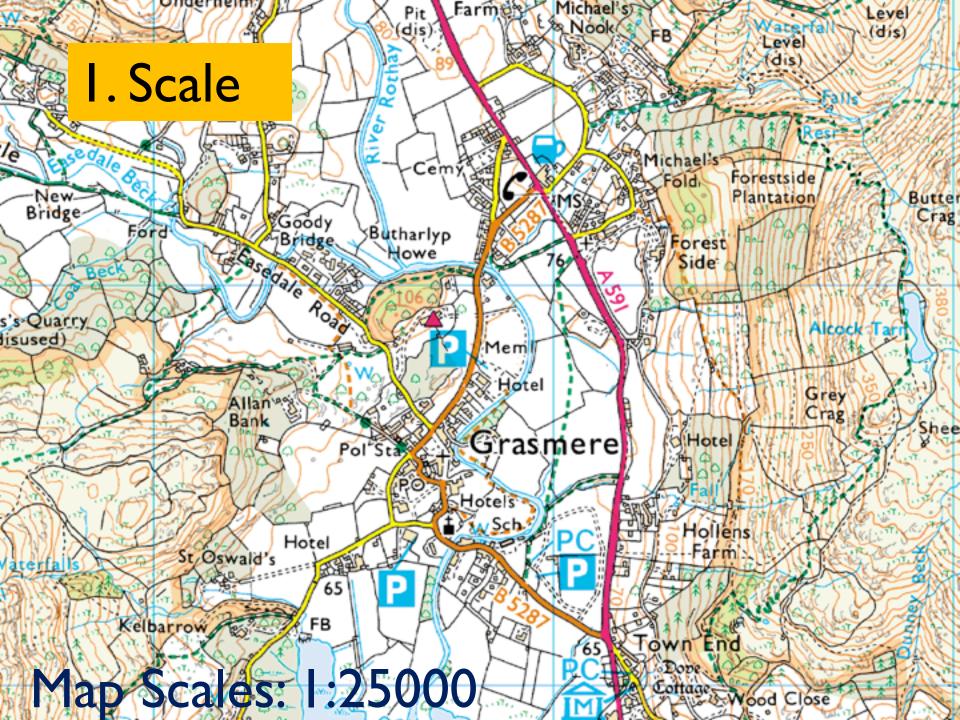
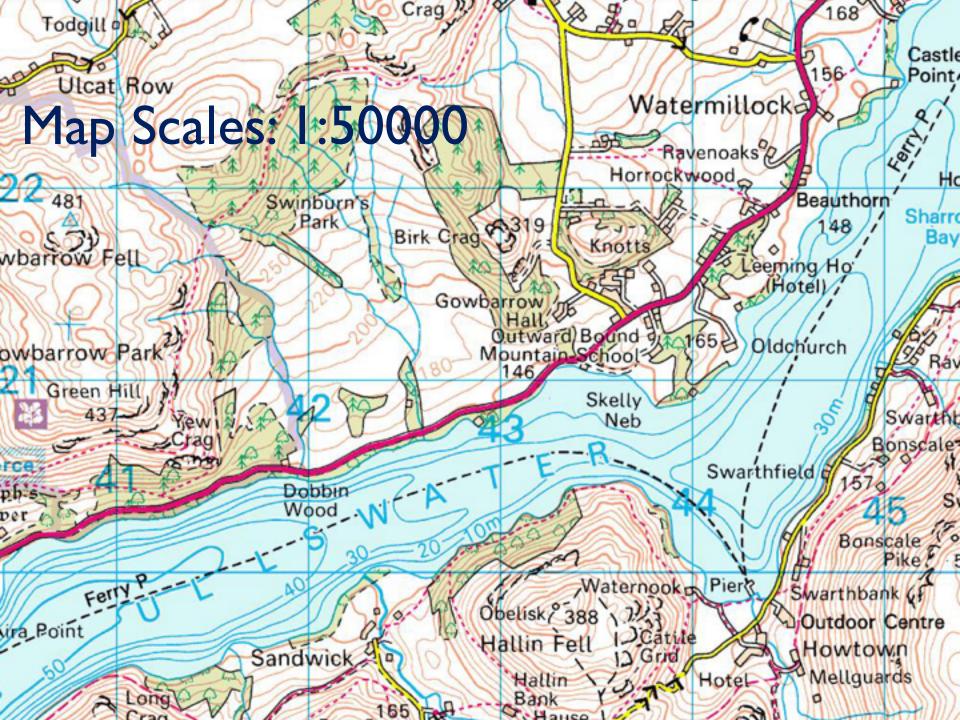
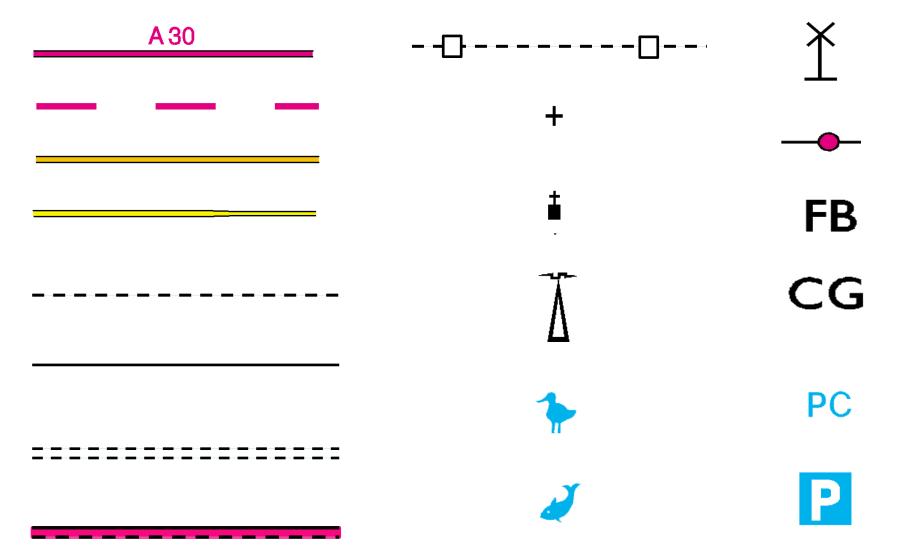


Navigation Recap and Advanced Skills



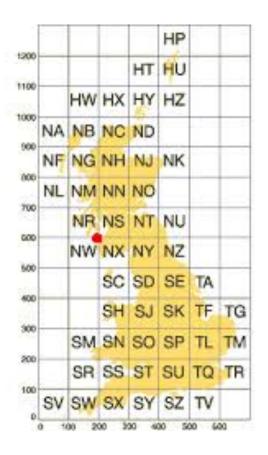


2. Map Symbols

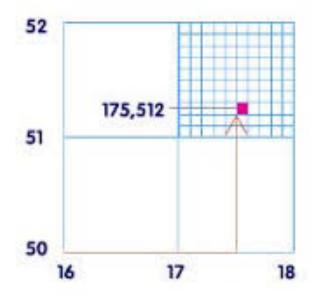


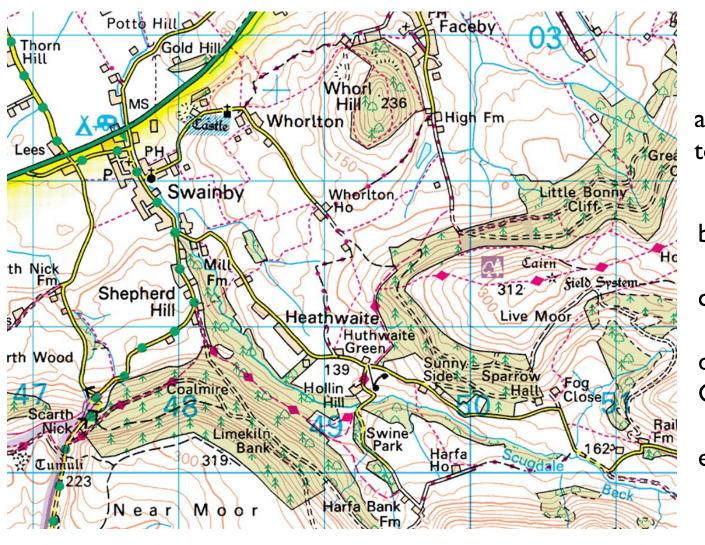
3. Grid References

- UK divided into squares 100km x 100km
- Squares on map 1km x 1km



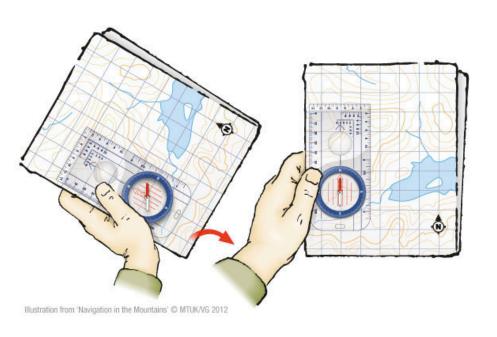
- Read numbers along bottom first
- Use compass to measure tenths





- a) Church with tower
- b) Campsite
- c) Phonebox
- d) Most Northern Cairn
- e) Highest point

4. Setting the Map





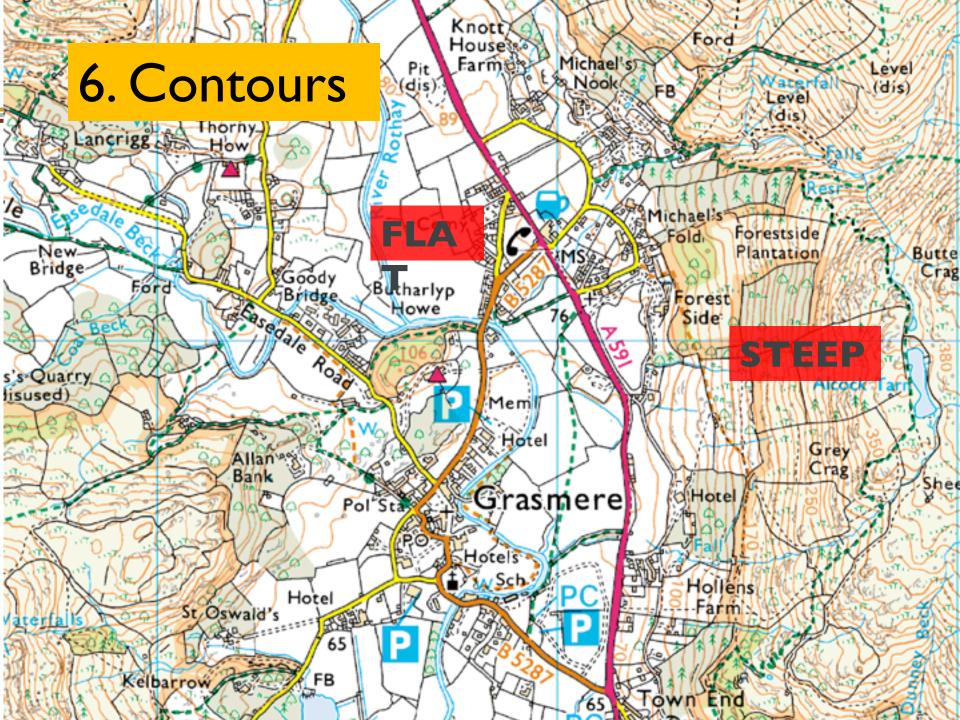
from 'Navigation in the Mountains' @ MTUK/VG 2012

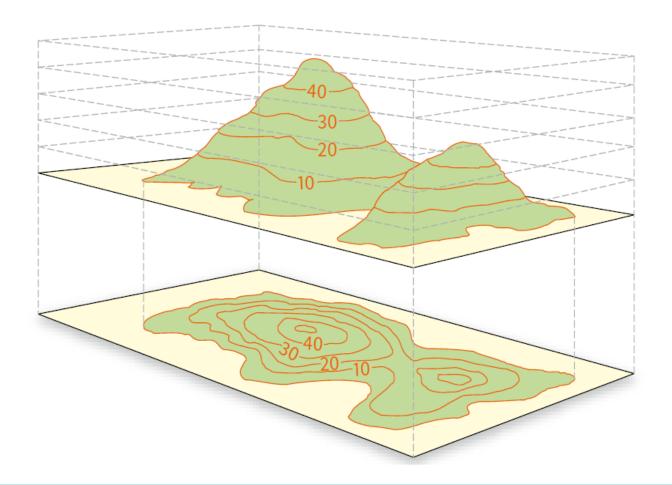
5. Ticking Off Features

Lake SEL Farm Clay Bank Quarry (disused) 187 Home Farm Great Court Farm Tew Quarry (dis) Cross Roads Manor The , Clump Grove 188 Quarries (disused)

What do you expect to see?

В





Each contour line represents a different height. If you are crossing contour lines you are going up or down hill!

7. Timing



Distance travelled	Speed in kms/hr		
in metres	5	4	3
1000	12min	15min	20min
900	11min	13½ min	18min
800	9½ min	12min	16min
700	8½ min	10½ min	14min
600	7min	9min	12min
500	6min	7⅓ min	10min
400	5min	6min	8min
300	3½ min	4½ min	6min
200	2½ min	3min	4min
100	1min	1½ min	2min

Add 1 minute per 10m climbed steady walking

8. Pacing

	PACE CALCULATOR			
Double paces	CONDITIONS UNDERFOOT			
per 100m	GOOD	MODERATE	BAD	
FLAT	60	70	80	
UPHILL	70	85	100	
DOWNHILL	60	70	90	



9. Relocating

If you're lost what do you do?





Advanced Skills: Using a Compass



Poor Weather



Confirm correct route



When there's no path



Grid and Magnetic North

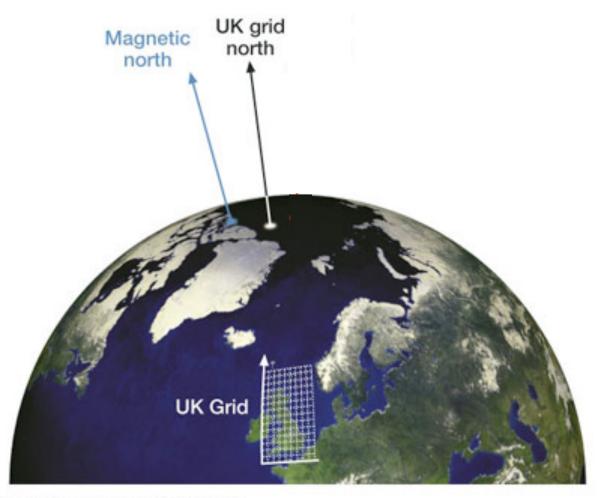


Illustration from "HII Walking" (II) MLTUK/ VG 2003

Beware!







1. Taking a Bearing from the Map

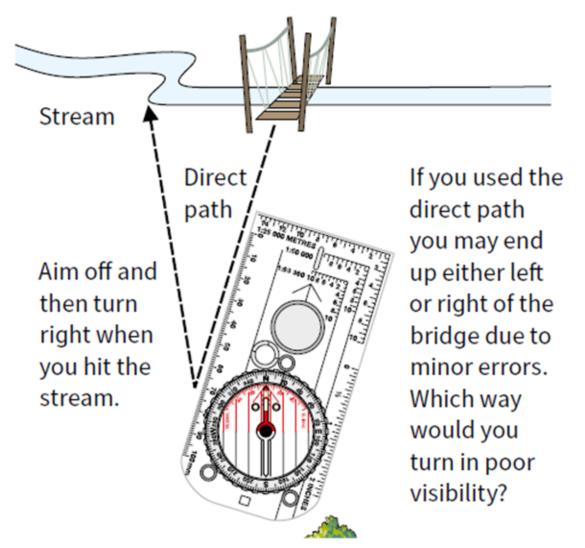


2. Walking on bearings

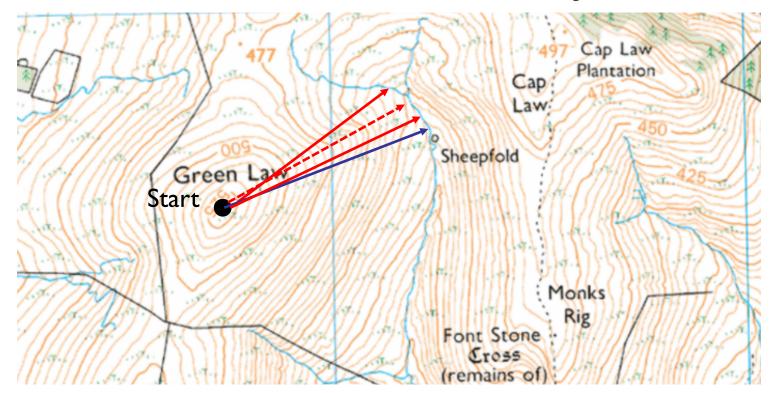


3. Aiming Off

Aiming off – If your checkpoint is on a linear feature such as a stream or a track, by simply aiming off slightly to one side of the checkpoint, you can guarantee which direction you need to head to reach your checkpoint upon hitting the linear feature.



You want to locate the stream junction

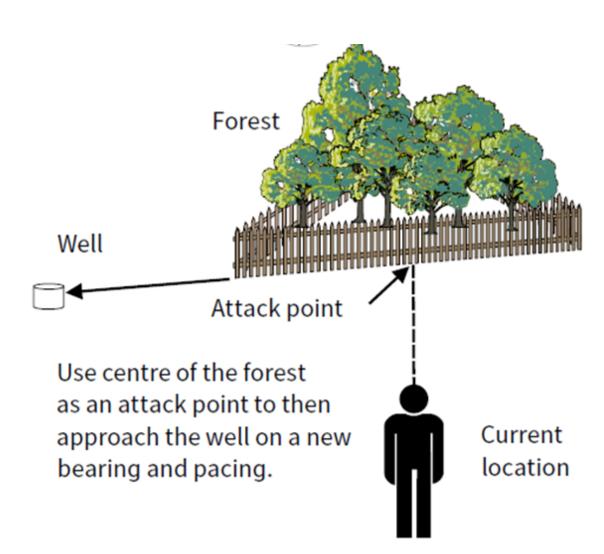


Option 1: Head direct. When you reach the stream you won't know whether to turn left or right.

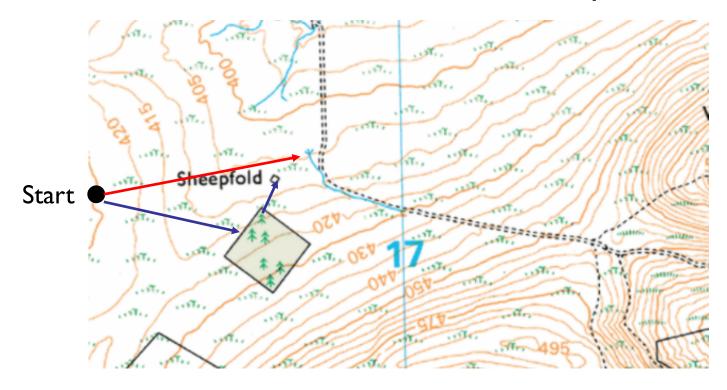
Option 2: Deliberately aim off right. When you reach the stream you know you need to head left.

4. Attack Points

Attack points – To locate difficult features simply find another definite, prominent feature nearby and make your way to the centre of it. Once there use pacing to find the original feature you are looking for – as shown in the diagram.



You want to locate the sheep fold...

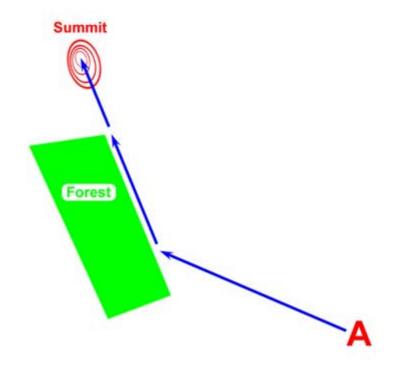


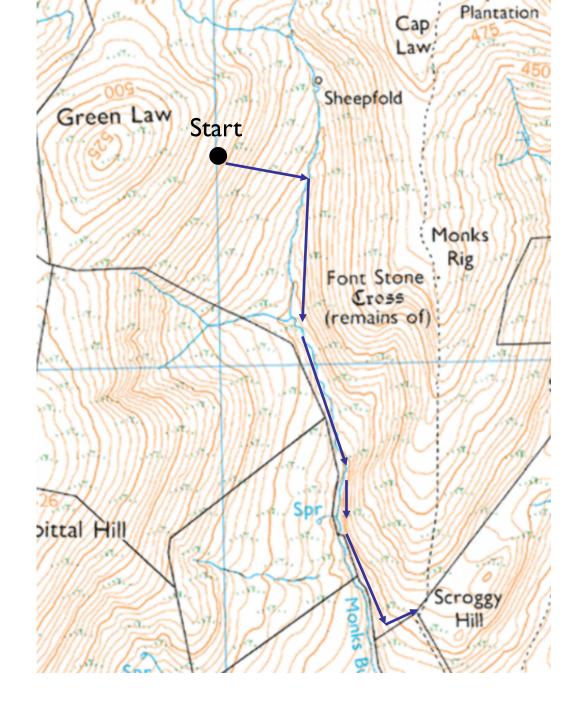
Option 1: Head direct. High chance you'll miss it...

Option 2: Use woods as an attack point. From corner of woods it'll be easy to find the sheepfold.

5. Handrailing

Handrailing is where you follow a linear feature (fence, pylons, edge of woods, stream etc) to lead you to your destination





Use the stream and fence as a handrail to reach the footpath junction