



# AT THE EDGE MOUNTAINEERING

"Your greatest failure is not to try"

## NAVIGATION TECHNIQUES

### QUESTIONS

*In these questions the prefix 'GR' stands for Grid Reference and does not correspond to the two-letter map prefix*

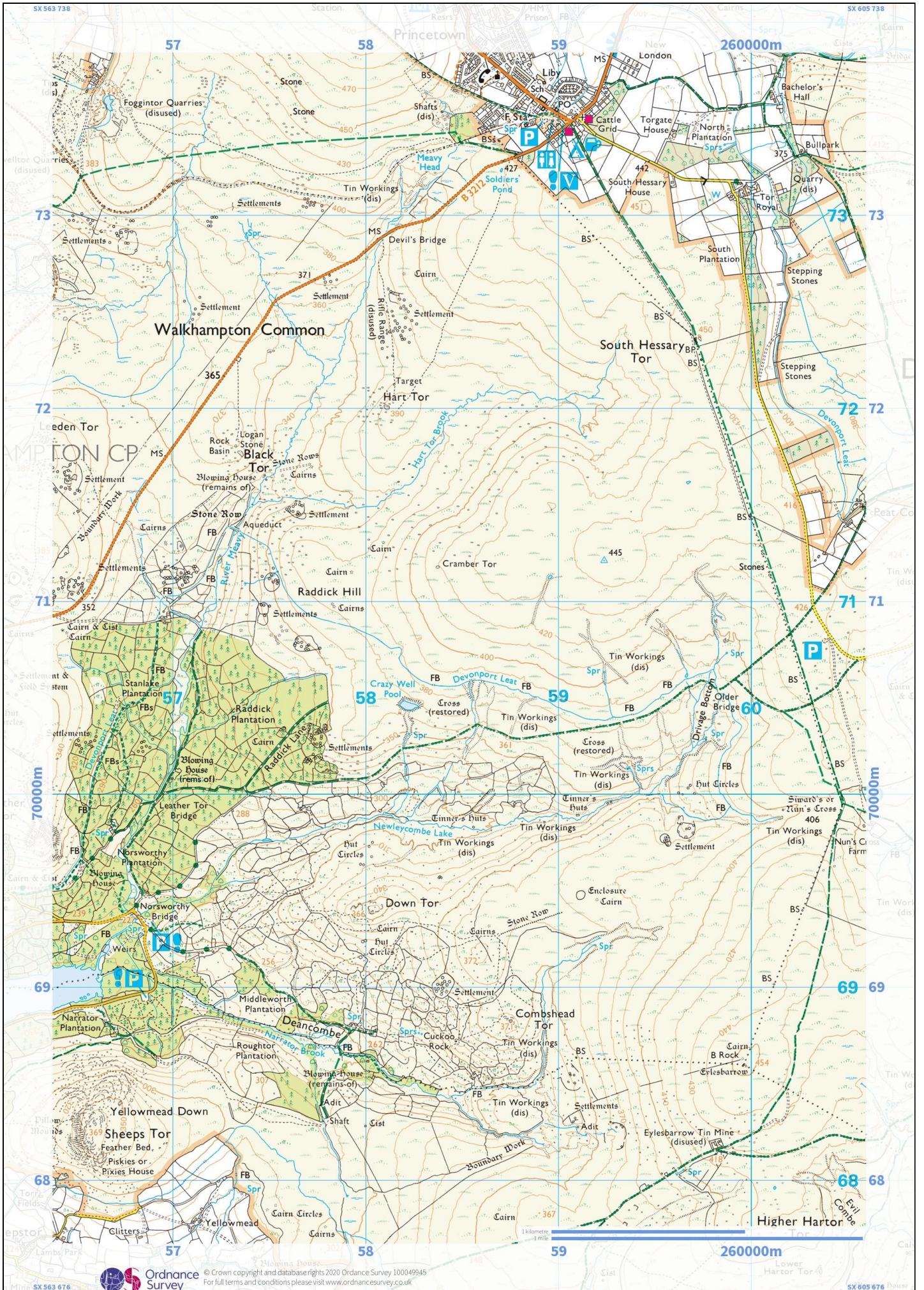
Here is the complete question sheet for my **NAVIGATION TECHNIQUES** series. The maps you will require are attached to the beginning of the questions. You will need to ensure these maps are printed to scale. Check your printer settings and maybe run a test print on one of the map pages to save ink and paper! **As a reference, one grid square should measure 4cm x 4cm (40mm x 40mm)**

The complete answer sheet is attached to Series 3 in my Online Navigation Course: **CONTOURS**

To put these skills into practice and to learn more, take a look at my [Navigation Courses](#) I offer.

All **confirmed bookings** will receive a **10% discount** code to use on [Harvey Maps](#) products from their site.





**Q1: Using a romer or a distance card, how far is it from Hart Tor (GR 581,720) to Black Tor (GR 573, 717) to the nearest 100m?**

.....

**Q2: Using a ruler, how far is it from South Hessary Tor (GR 597, 723) to the Trig Point (GR 592, 712) to the nearest 50m?**

.....

**Q3: From where the bridleway meets the road (GR 590, 734) to where the bridleway meets the end of the embankment (GR 582, 702) follow this bridleway and measure the distance to the nearest 100m.**

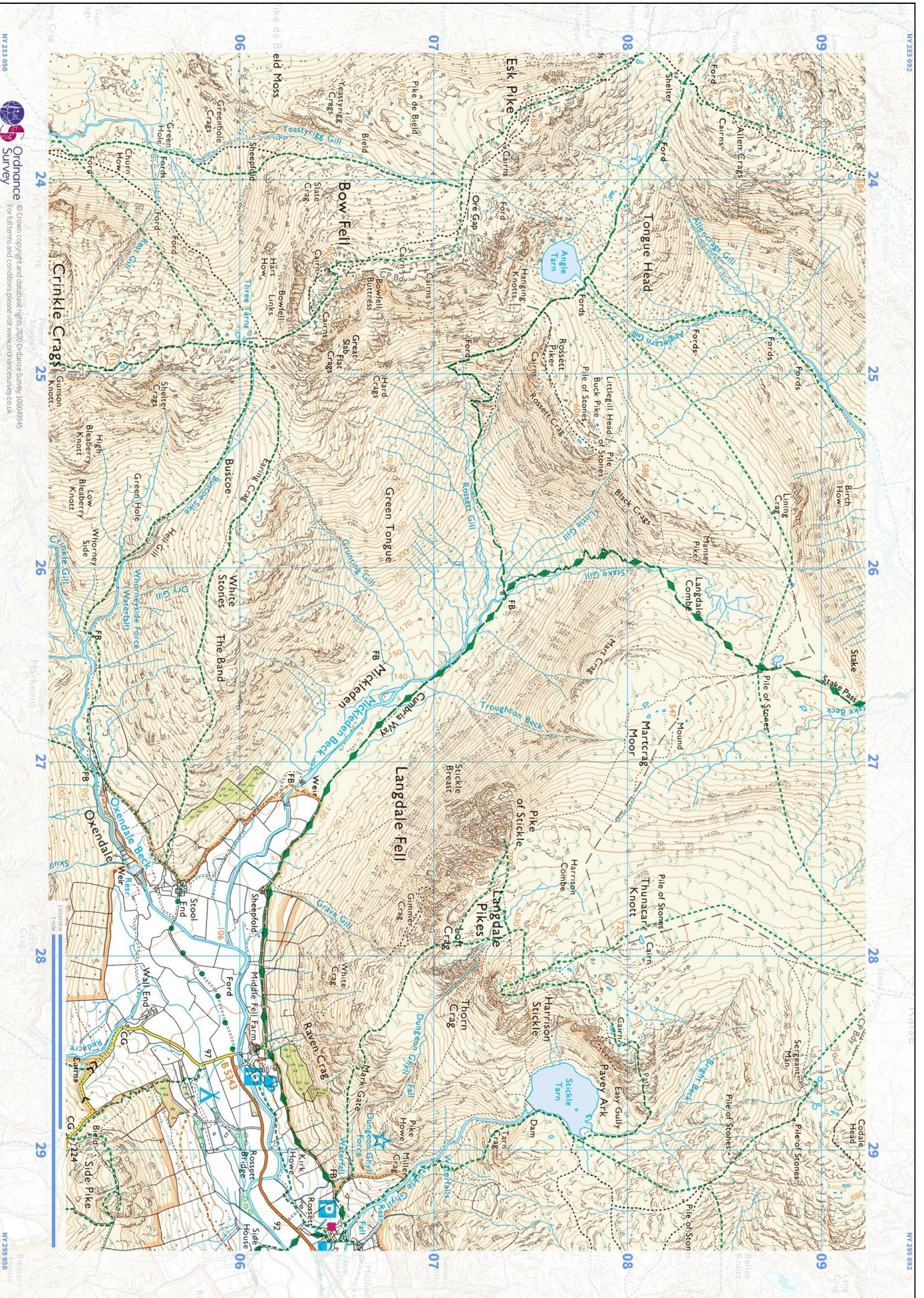
.....

**Q4: In straight lines measure the following distances to the nearest 25m and work out the total distance:**

- Footbridge (GR 583, 705) to Cramber Tor (583, 711) .....
- Cramber Tor (GR 583, 711) to small pond (GR 589, 711) .....
- Small Pond (GR 589, 711) to Small Pond (GR 596, 716) .....
- TOTAL DISTANCE: .....

**Q5: Using any way to measure distances, measure the following distances to the nearest 25m and work out the total distance:**

- Where the bridleway meets the road (GR 590, 734) to where the footpath meets the road (GR 580, 728)  
.....
- Where the footpath meets the road (GR 580, 728) to Hart Tor (GR 581, 720)  
.....
- From Hart Tor (GR 581, 720) to the Trig Point (GR 592, 712) .....
- TOTAL DISTANCE: .....



**Q6:** You are walking along the Cumbria way. It is a good, flat footpath and you are averaging 4kmh. You have just crossed the footbridge at GR 261, 073 heading SE. It is now 21:00 in the evening and last orders at the Old Dungeon Ghyll bar (GR 285, 061) is called at 22:00. Will you get to the bar in time?

- Work out distance to the nearest 100m
- Work out time to the nearest minute

.....

**Q7:** You left Three Tarns (GR 248, 060) at 14:15 in the afternoon and are descending the footpath down 'The Band' to the East. You are walking at 3kmh and it is now 14:49. Roughly where are you on The Band?

- Within 10% allowance either way (Time and Distance)

.....

**Q8:** The distance from the footbridge (GR 261, 073) to the small Tarn (GR 264, 087) is 1.9km. Walking at 2kmh, how long will it take you to walk there?

- Consider Naismith's rule
- Within 10% allowance (Time)

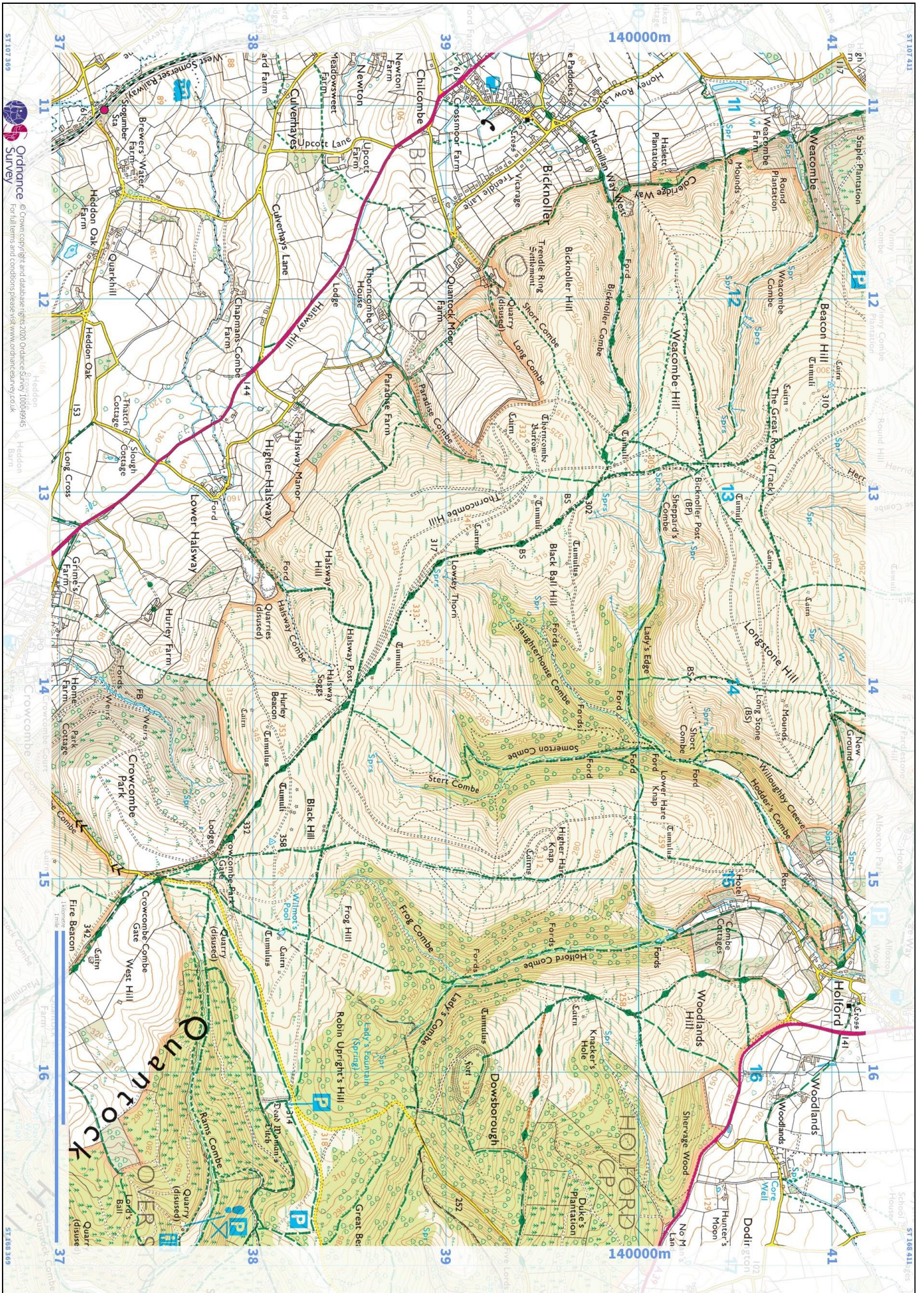
.....

**Q9: No map needed for this Question:** You are planning a brisk circular walk for the morning but have to be home by midday. You plan to walk at 5kmh. If you were to leave at 09:30, how far can you plan to walk?

.....

**Q10: No map needed for this Question:** I have planned a walk which is 9.6km long with height gained of 340 metres. If I average 4kmh, how long will this walk take (assuming I take no breaks)?

.....



ST101 431



© Crown copyright and database rights 2020 Ordnance Survey 100069945  
For full terms and conditions please visit www.ordnancesurvey.co.uk

ST108 431

**Q11: What is the bearing from the southern end of Wilmot's Pool (GR 152, 381) to the Trig point (GR 148, 381)**

.....

**Q12: I have reached the track junctions at GR 128, 398 and I am unsure which track to take. I have taken a bearing on my map down the path I want to use. The bearing is 338 degrees. Which track will I take? (Highlight on you map)**

**Q13: I am walking up Bicknoller Combe. I am in grid square 12, 39 and have checked the direction of the path using a magnetic bearing to see where I am on the track. My bearing is 59 degrees. Roughly where am I? (Highlight on your map)**

**Q14: I am stood at the Tumuli at GR 131, 405. I have spotted my next checkpoint through a break in the clouds. I took a sight bearing and it was 309 degrees. What feature did I see?**

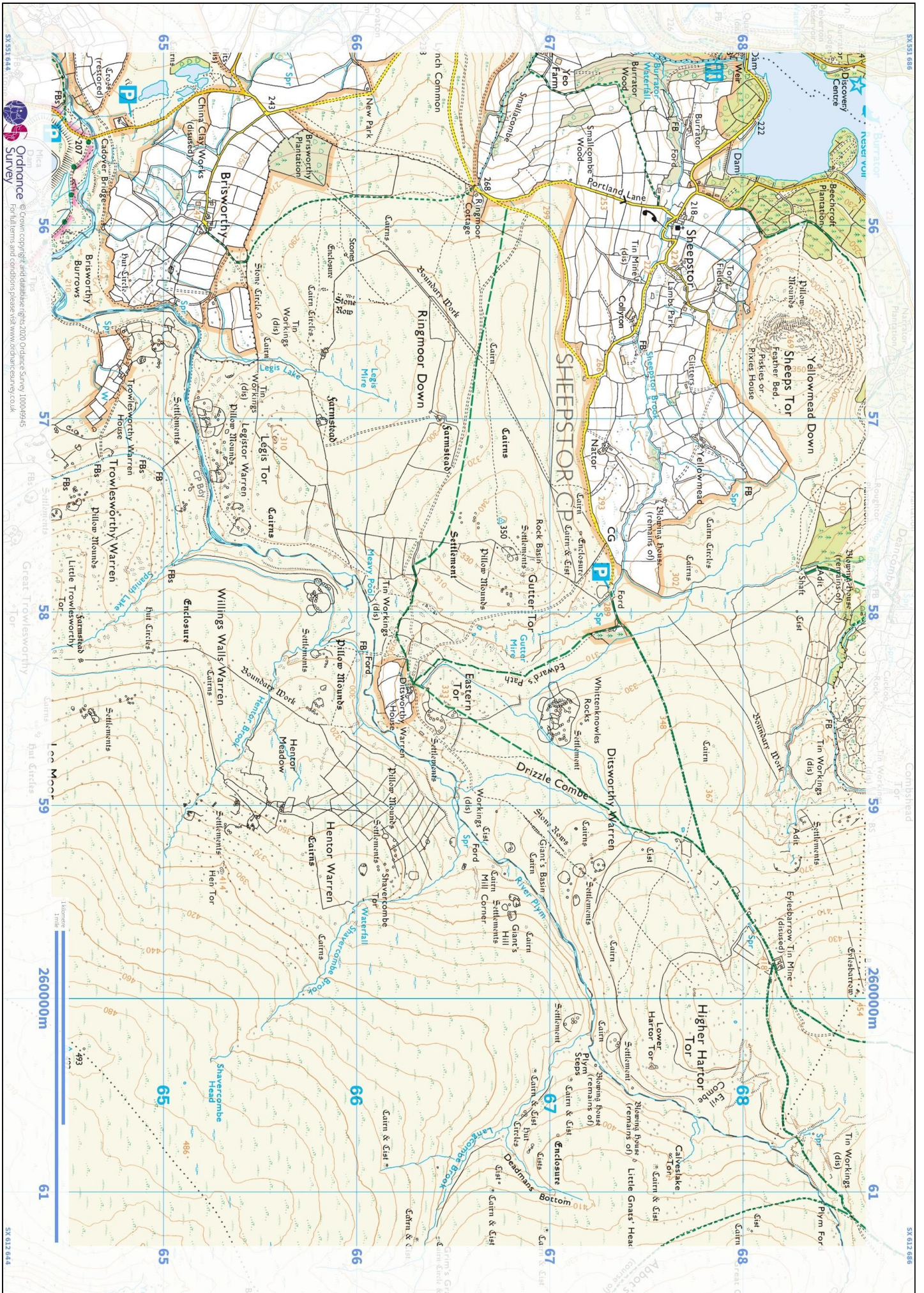
.....

**Q15: What is the bearing from the Tumulus at GR 147, 401 to Higher Knap at GR 148,395?**

.....

**Q16: Check the direction of the handrail from GR 132, 379 to GR 135, 381**

.....





**Q17: From Ditsworthy Warren House (GR 584, 662) you want to head to the Trig Point on Gutter Tor (GR 575, 667). The visibility is poor. Using what you know about attack points, describe how would get to the Trig Point and how long it is going to take. You are walking at 3kmh.**

.....

.....

.....

.....

**Q18: From the parking (GR 579, 673) you want to head to Lower Hartor Tor (GR 603, 675). It is night but you can manage to average 4kmh. Describe what you think is the best route to get to the Tor and why. How long will it take you?**

.....

.....

.....

.....

**Q19: From the enclosure (GR 581, 651), what technique or techniques would you use to find the footbridge (GR 577, 650)?**

.....

.....

.....

.....

**Q20: From Hen Tor (GR 593, 653), describe how you would navigate to the Settlement (GR 593, 660)**

.....

.....

.....

.....

**Q21: From Hen Tor (GR 593, 653), how far and how long will it take you, walking at 3kmh, to get to the small pond (GR 604,651) and on what bearing?**

.....

**Q22: From where the Stone Row meets the Boundary (GR 563, 659), you set a bearing to head to the Trig Point (GR 575, 667). The visibility is poor, and you think you may have wandered off your bearing. You come across a boundary and check the direction it is running in. It is running along a bearing of 87 degrees. Which boundary are you on? (Highlight on your map)**

**Q23: You are walking at 3kmh, following the Leat in grid square 57, 64 and 57,65 You are heading for the footbridge (GR 577, 650) and want to know how long it is going to take you to get there. You are stood by another footbridge, but which one? (*highlight footbridge on your map*)**

- You passed a footbridge 2 minutes ago
  - The aspect of slope from your position is 322 degrees
-