## **River Homework 3 Answers**

	all is found at X on figure 1, give the 6 figure grid reference for the waterfall '
There is	another waterdall at Y, state the distance between the two waterfalls? (1)
	km
Which w	aterfall, X or Y, is located on a steeper section of the rivers course? (1)
•••••	
1.1	633525 (accept 634524) [1 mark]
	THE CONTRACTOR OF THE PARTY OF
1.2	0.4 km /1 mark/
2130	0.4 km [1 mark] Waterfall Y [1 mark]

- 4) Suggest why waterfalls have formed along this stretch of river (2)
  - 1.4 Waterfalls form where a river flows over an area of hard rock followed by an area of softer rock [1 mark], so the Afon Merch must flow over rocks with alternating hardness [1 mark].
- 5) Explain how a gorge may form in the upper course of this river (3)
  - 1.5 A gorge forms as a waterfall retreats up a river channel [1 mark]. The hard rock cap is undercut by erosion (abrasion) so it becomes unsupported and collapses [1 mark]. Over time, more undercutting causes more collapses, so the waterfall retreats, forming a gorge [1 mark].
- 6) Explain the formation of an interlocking spur? (4)

2.1	This question is level marked. How to grade your answer:		
	Level 0:	There is no relevant information. [0 marks]	
THE RESERVE	Level 1:	There is a basic explanation of the formation of interlocking spurs. [1-2 marks]	
200 to 20	Level 2:	There is a detailed explanation of the formation of interlocking spurs, which uses geographical terms accurately. [3-4 marks]	
	<ul> <li>Here are some points your answer may include:</li> <li>In the upper course of a river most of the erosion is vertically downwards, creating steep-sided, V-shaped valleys.</li> <li>In the upper course, rivers aren't powerful enough to erode laterally (sideways), so they wind around the high hillsides that stick out into their paths on either side.</li> <li>The hillsides interlock with each other as the river winds around them, forming interlocking spurs.</li> </ul>		