

River Homework 2 answers

- 1) Small gravel particles are transported by velocities above 0.1m per second. At what distance along the river Dance does the transportation of gravel start? (1)

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- 2) At 80Km along the River Dance, pebbles are being transported. Give the velocity of the river at this point? (1)

.....m/s

- 3) Suggest the process by which pebbles are transported in the River Dance (1)

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10 km [1 mark]
0.8 metres per second [1 mark]
Saltation [1 mark]

- 4) Using figure 1, suggest why deposition is the dominant process between 20-30km (2)

1.4 Between 20 and 25 km the river's velocity drops [1 mark].
When rivers slow down they deposit the material they are carrying [1 mark].

- 5) Using figure 1, describe how particle size changes with the distance from the source of the river and explain the process that causes this change (3)

1.5 The particle size generally decreases with distance from the river's source [1 mark]. This is because particles carried by the river bump into/collide with one another [1 mark] causing fragments to break off (this process is called attrition) [1 mark].

- 6) Outline 2 processes of erosion that are likely to be deepening the river channel in the upper course of the river Dance? (2)

1.6 Any two from: hydraulic action may deepen the river channel because the force of the water breaks rock particles away from the river bed [1 mark]. / Abrasion may deepen the river channel because eroded rocks picked up by the river scrape and rub against the river bed, wearing it away [1 mark]. / Solution may deepen the river channel because river water dissolves some types of rock, e.g. chalk and limestone [1 mark].