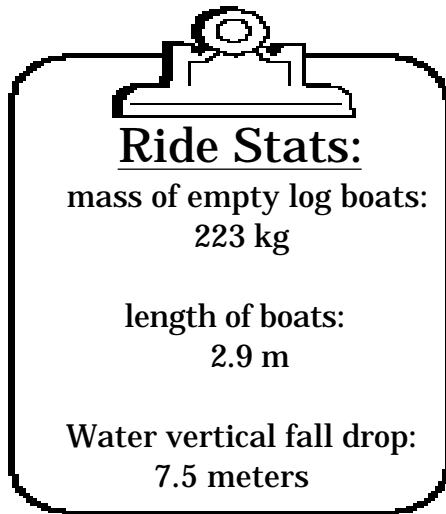


Roaring Creek Log Flume



Notes:

Measurements

Speed of boat at bottom of waterfall before hitting water: _____

Time from boathouse to boathouse: _____

Time for one complete ride cycle: _____



For each of the following tasks briefly describe what method you used to determine the information necessary to answer the question. Include in your description a listing of what measurements were taken, how these measurements were taken and all calculations used.

Task 1:

Determine the length of the ride in meters from the point where the boats leave the boat house to the bottom of the ramp. Assume each rider has a mass of 60 kg.

Task 2:

Determine the average force exerted on the boat by the water at the bottom of the water fall.

As accurately as you can, draw a speed verses time graph for the boat from 30 seconds before going over the waterfall until 10 seconds after it has gone over the waterfall.

