

# Floating the River Task



Three friends floating down the South Fork of the New River in Ashe County. The last time they went, they noticed that when they were between the rapids, they weren't going very fast and the water was deep. When they were going fast however, the water was much more shallow. So, they decided to collect measurements every ten minutes of the river's depth, their speed, and how far they had traveled down the river.

- Friend 1 measured the depth of the river with a fishing weight tied to a string
- Friend 2 used a waterproof GPS to measure their speed in miles per hour
- Friend 3 used a running app on a smartphone to measure the total distance they had traveled in miles.

**Task:** Given different representations of these measurements, describe their trip down the river. Do you agree or disagree with their observation?

Time (min)	Depth (ft)	Rate (mph)	Distance (miles)		Time (min)	Depth (ft)	Rate (mph)	Distance (miles)
0	4	2	0		80	3	2.5	3.84
10	4	2	0.33		90	3	2.5	4.25
20	3	2.5	0.74		100	1	8	4.93
30	2	4	1.15		110	1	8	6.27
40	2	4	1.82		120	8	1	6.82
50	2	4	2.49		130	8	1	6.99
60	3	2.5	3.00		140	8	1	7.17
70	3	2.5	3.42		-	-	-	-