

Physics 131

Name: _____

January 27, 2006 in Lecture Quiz

Note: Velocity has units ℓ/t , acceleration (change in velocity per unit time) has units ℓ/t^2 .

1. A boat is cruising toward shore at constant speed. Denote the direction toward shore as the positive direction. In each minute, the boat travels 420 m. what is the boat's speed in m/s?
2. While moving toward shore, the boater turns off the motor. The velocity is no longer constant, so the boat is accelerating. Remembering that toward shore is the positive direction, is the acceleration positive or negative?
3. If the boat is moving in the negative direction when the motor is turned off, is the acceleration positive or negative?