- 1. Explain why Special Relativity is 'special' and General Relativity (via the Equivalence Principle) must incorporate a model of gravity?
- 2. You are in an elevator when the cable snaps and you begin to fall. At the instant the cable snapped, you dropped a ball. Describe what you would see happening to the ball. Your falling elevator is called a 'local inertial frame'. Why 'inertial' and why 'local'?
- 3. Describe two (real) experiments or observations that tested Einstein's ideas about gravity.
- 4. Describe one technology that must take into account gravitational time dilation and why.