- 1. What is the most recent technological development regarding space travel and why are many people excited about it?
- 2. What is the Hubble telescope and how does it differ from ordinary telescopes? **Shoemaker Levy 9** was involved in an extremely violent event a few years ago but what has that got to do with the Hubble telescope?
- 3. What do we mean by space research 'spin offs' and give an example of one such spin off.
- 4. The *gravitational field strength* on Earth is 9.8 Nkg⁻¹. Explain what this means. You must use the words Force and 1.0 kg in your explanation.
- i) A rocket has a mass of 65, 000 kg, calculate the pulling force the Earth exerts on the rocket.
- ii) Write down the rockets weight.
- iii) What is the minimum force needed to make the rocket rise?