

Compression PPQ

- 1 To prove parcels have not been damaged in transit, a delivery drivers use a digital camera to take a photograph of them when they arrive at their destination. The digital camera uses flash memory.

- (i) Describe **one** advantage of the digital camera using flash storage rather than magnetic. [2]

Flash storage is more durable than magnetic storage as it has no moving parts.

This means that is the camera is subjected to shocks is is more likely to survive.

In addition flash storage is quicker meaning that videos recorded with the camera will be stored more quickly.

- (ii) Explain whether lossless or lossy compression would be most appropriate to store the photographs. Justify your response. [3]

The difference between Lossy compression and lossless compression is hard to distinguish

between by a human. The benifit of using lossy compression means that the storage

- 2 A charitable organisation is trying to make the works of William Shakespeare available to more people.

- a. The organisation decides to make a copy of Shakespeare's entire works available as a downloadable text file from its website. It further decides to compress the file before making it available to download.

- i. State an advantage to the website's visitors of the file being compressed. [1]
Smaller downloads lower download times

- ii. Explain why the company should use lossless and not lossy compression. [3]
No data can be lost without losing important information