

4 A student uses a mobile phone to take photographs for a school project.

The student needs to transmit the photographs to their computer. They could use serial data transmission or parallel data transmission to transmit the photographs.

(a) (i) Describe how the photographs would be transmitted using serial data transmission.

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(ii) Give **two** benefits of transmitting the photographs using serial data transmission.

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(iii) State **one** benefit of the student using parallel data transmission instead of serial data transmission.

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(b) The photographs are also transmitted across a network to cloud storage. A device on the network forwards the data towards its correct destination.

(i) State the name of this device.

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(ii) Describe what is meant by cloud storage.

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(iii) Give **one** disadvantage of storing the photographs in cloud storage instead of storing them locally.

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