

A coffee company has coffee shops located across the country. Each shop has its own Local Area Network (LAN). The company wants to connect the shops in a Wide Area Network (WAN).

(a) (i) Describe **two** characteristics of a LAN.

- 1 Uses connections owned by the organization that runs the LAN.
- 2 Small geographical area.

[2]

(ii) Describe **two** characteristics of a WAN.

- 1 Connects multiple LANs together.
- 2 Covers large geographical areas.

[2]

(b) Describe **one** piece of hardware that each shop will need to connect their LAN to the company's WAN.

A router is a device that bridges the gap between LANs and WANs. The router directs both external and internal traffic ensuring it reaches the correct node.

[2]