

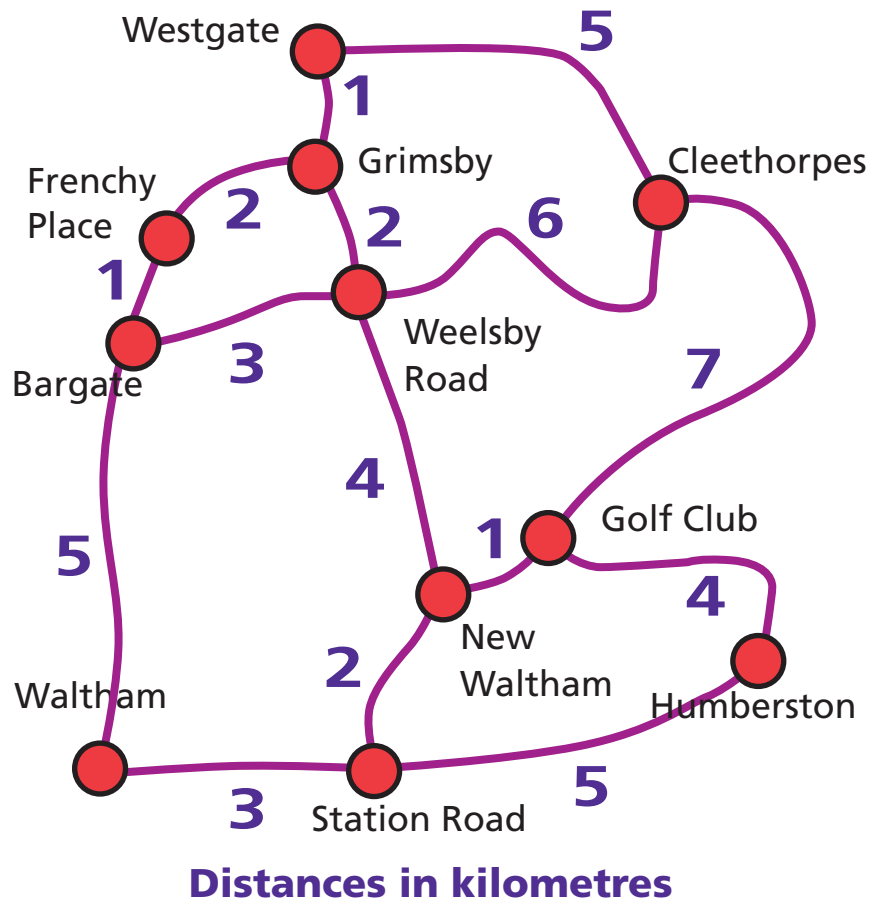
cable connections

The **mathematics** here is often used at work. It solves a variety of networking problems.

Can you link these places using the shortest length of cable?

■ **Your task** is to plan how to lay cables for a cable TV service between all the places on the map.

■ **Laying cable** is very expensive so you need to keep the total length of cable as short as possible.



- Make sure all the locations are **connected**. They do not have to be connected directly, as the signals travel along the cables at the **speed of light**!
- You discover that due to planned engineering works it will not be possible to lay cable directly between Weelsby Road and New Waltham.
- What is the **shortest length of cable** required now?