

## Section 2, question 22.

a. ~~Segment 1. ~~the~~ Normal phone line. This is cheap, and only needs to travel a small distance, it also would be travelling~~

### Segment 1.

Radio waves. Her mobile phone sends out a radio signal picked up by the network at the exchange. It is suitable as it doesn't need a physical wire, and can send from anywhere in the town

### Segment 2.

Micro wave. This is needed to travel the long distance and to cut the cost of running expensive cabling up and down hard to reach mountains. Instead, an ~~sender to~~ amplifying and direction changing microwave antenna on top of the mountains can send across quickly

### Segment 3.

Coax. The distance travelled needs a strong signal with interference, and

is most likely underground.

Segment 4.

phone line. Using the existing phone network is cheap, and the relatively small distance keeps the signal strong ~~to~~ enough ~~to~~ to be received by the office.

Mobile technology helps ~~just~~ Jill because she does not need to plug into a phone line, ~~she~~ she can do her work anywhere in the range of the mobile networks. This allows her flexible conditions and is almost guaranteed a connection if her phone and <sup>mobile</sup> the network is in order.

C. The data dictionary would assist her as it contains information on the types of data allowed and a description of the data. This would allow Jill to construct SQL queries with precisely the information she requires without having to sort it herself. The ~~data~~ data ~~to~~ results from the query would be more useful and contain information she understands and requires.