

**Railway Routes**

A family went on a train journey.

There was a charge between each station.

A

F

E

B

C

D

⚫

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A to B** | **B to C** | **C to D** | **D to E** | **E to F** | **F to A** | **B to D** | **B to F** | **C to E** | **C to F** |
| **£4** | **£3** | **£4** | **£4** | **£3** | **£4** | **£5** | **£3** | **£2** | **£2** |

The fare from **A** to **B** is the same for **B** to **A**.

The train starts at **A** and makes its way round each station once and ends up back to **A**.

How many different ways are there of completing the trip from **A** back to **A** visiting each station once?



**Going Further**

Which is the cheapest journey?

Which is the most expensive?

**KS2A**

**Visual/Diagram Problems**