## Anthony Colins Institute

## Educational Development

## Bus Routes



Six towns are connected by bus routes.
The bus goes from A back to A. It visits each of the other towns once.
How many different bus routes are there?

The table below shows the bus fare for each direct route.
$B$ to $A$ costs the same as $A$ to $B$, and so on.

| A to B |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $£ 4$ | B to C <br> $£ 3$ | C to D <br> $£ 4$ | D to E <br> $£ 4$ | E to F <br> $£ 3$ | F to A <br> $£ 4$ | B to D <br> $£ 5$ | B to F <br> $£ 3$ | C to E <br> $£ 2$ | C to F <br> $£ 2$ |

What is the cost from:
A to D
Eto A
C to A
B to $E \quad F$ to $D$

Find at least two different routes from your start position tyour finishing position.

