Transport Problem Solving

Mr Singh parks his car.

Here are the charges.

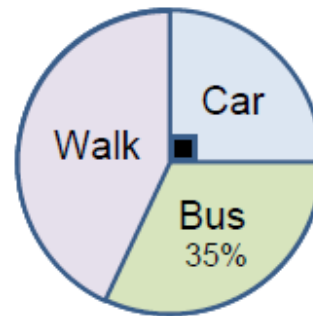| White Rose Car Park	
First hour	£2.50
Every additional 30 minutes (or less)	£1.80

Mr Singh arrives at 10.45am

He leaves the car park at 2.30pm

How much did he pay to park?
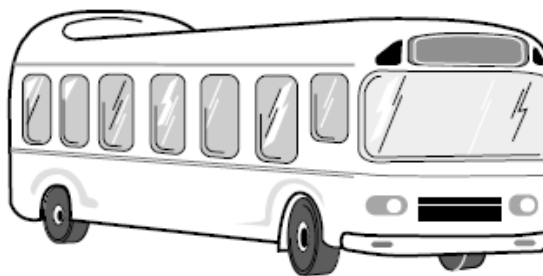
The pie chart shows how children in Y6 travel to school.
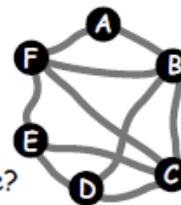
35% of children travel by bus.

8 **more** children travel by bus than by car.

(a) How many children are in Y6?

(b) How many walk to school?

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?

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

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

Which round trip from A to A is the cheapest?

Answers:

Car Park Charges: £13.30

Pie Chart:

    a) 80 children

    b) 32 children

Bus Routes: There are six different routes from A back to A:

A B C D E F A
A B D C E F A
A B D E C F A
and the three reversals of these. The cheapest routes are A B D E C F A and its reversal, which each cost £21.