

### Solution

Trish lives a five minute drive from the Maghera Park and Ride and a 15 minute drive from the Dungiven Park and Ride. This means she can travel from either of the two Park and Ride bus stops.

#### Bus to Belfast City Centre

The latest times that Trish can arrive at the Belfast City Centre stops are:

- North Street: 5 minutes + 15 minutes = 20 minutes, therefore 09:40
- Europa: 20 minutes + 15 minutes = 35 minutes, therefore 09:25.

If Trish gets the bus from Maghera at 07:30 she will arrive at the Belfast City Centre bus stops at the following times:

- North Street: does not stop here
- Europa: 09:00 – 25 minutes early.

If Trish gets the bus from Maghera at 08:00 she will arrive at the Belfast City Centre bus stops at the following times:

- North Street: does not stop here
- Europa: 09:30 – 5 minutes late.

If Trish gets the bus from Maghera at 08:30 she will arrive at the Belfast City Centre bus stops at the following times:

- North Street: 09:45 – 5 minutes late
- Europa: 09:55 – 30 minutes late.

However, if Trish drives to the Dungiven Park and Ride and gets the bus at 08:00 she will arrive at the Belfast City Centre bus stops at the following times:

- North Street: 09:25 – 15 minutes early
- Europa: 09:45 – 20 minutes late.

Therefore, the latest time Trish can get the bus to Belfast is 08:00 from the Dungiven Park and Ride.

#### Bus from Belfast City Centre

Trish has parked at the Dungiven Park and Ride, so she then needs to get a bus that will get her back to Dungiven and not Maghera.

Trish lives a 15 minute drive from the Dungiven Park and Ride so needs to arrive no later than 18:45.

While the latest she can get a bus back to Maghera is 17:45, the latest she can get a bus back to Dungiven is 17:30 as this gets to Dungiven at 18:40, with more than 15 minutes to drive home.

Therefore, the latest time Trish can get the bus home from Belfast is 17:30 to the Dungiven Park and Ride.

