Task A

You need your street map of Manford.

Remember: 5 miles is about 8 kilometres

Everyone has made it to the car park where the school bus is waiting.

1 The whole class walking together can keep up an average speed of 2.5 miles an hour. How fast is this in kilometres per hour?

2 The school bus can travel in the congested streets at an average speed of 10 miles an hour. How fast is this in kilometres per hour?

3 Investigate the shortest safe distance by road from the Car Park to the Imperial Hotel.

4 How much quicker would it be to get to the Imperial Hotel by bus than by walking?

Task B

Two Aliens came out from each of the four spaceships at 10:00 am.

Every hour, each Alien has doubled in size and exploded into two.

Someone has been trying to predict how many Aliens there might be in a few hours time.

Complete this table for them.

Time	10:00	11:00	12:00	13:00	14:00	15:00	16:00
Number of Aliens	8 2^3	16 2^4	32				

a How many Aliens do you think that there will be 8 hours after they first came out of their spaceships?

b How many Aliens do you think there will be at midnight? Explain why.

c Write a formula to show the number n of Aliens that there will be h hours after they first came out of their spaceships.