

## Introductory problem

1 The team is ready to start analysing their data ready for their report to the UN.

The loggers have been working for 7 days a week. The branches of the felled trees have been sawn off and burned on the spot and **each trunk has been sawn in half to make two large logs.** The team has been taking substantial risks but the members have managed to record the number of lorries and their loads as they take the logs away each day.

a Help in the fight against Log Inc by completing the table.

	Estimated total number of logs on all lorries	Estimated number of mature trees felled
Sunday	280	
Monday	400	
Tuesday	380	
Wednesday	200	
Thursday	240	
Friday	300	
Saturday	320	
Total		
Mean (per day)		

b Give an estimated range for the total number of mature trees felled by Log Inc **per year.**

..... trees

c Each night the team has counted the number of tree stumps left in a measured area. They have worked out that on average each hectare (10 000 m<sup>2</sup>) of rainforest has produced about 200 mature trees, which have now been felled.

Give an estimated range for the total area of deforestation (the cleared area) created by Log Inc each year.

..... m<sup>2</sup>

d On a typical day, the loggers work in teams of 4 people. Each team of loggers has dealt with about 10 large trees each day. Estimate how many loggers are working for Log Inc.

..... loggers