

Gigantic Jumbo

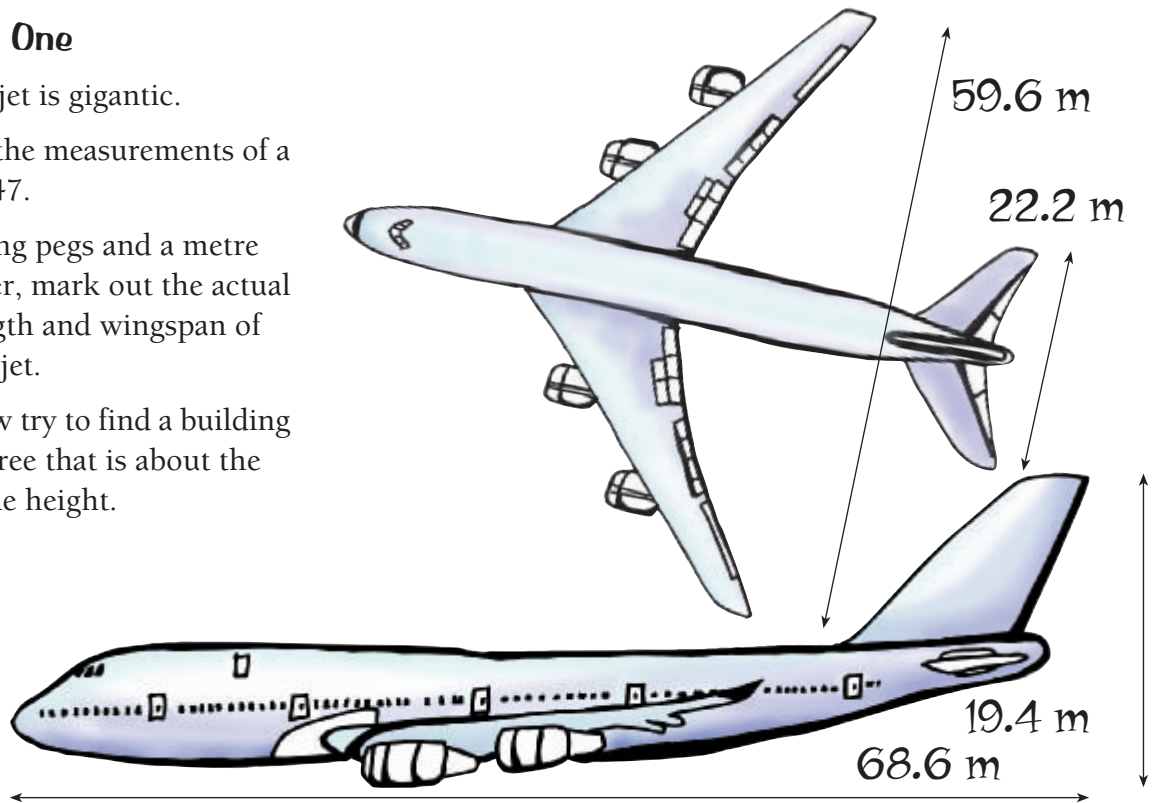
- You need** a 20 metre tape measure or a trundle wheel
 an area for measuring (a large area or park)
 a calculator a metre ruler pegs or markers

Activity One

A jumbo jet is gigantic.

Here are the measurements of a Boeing 747.

- Using pegs and a metre ruler, mark out the actual length and wingspan of the jet.
- Now try to find a building or tree that is about the same height.



Activity Two

A Boeing 747 carries 390 passengers on one of its flights. The average mass of the passengers is 80 kilograms.

- What is the total mass of the passengers?
- Imagine that each passenger has an 80 centimetre x 60 centimetre x 20 centimetre suitcase.

How big will the jet's luggage space have to be to hold all the suitcases?

Activity Three

On the opposite page is a map of the main Australian, Asian, and Pacific tourist destinations from Auckland, Wellington, and Christchurch.

- A Boeing 747 can fly up to 13 400 kilometres using full tanks of fuel. Use the map to work out what main tourist destinations a 747 flies directly to, using at least half of the fuel.

SECTOR FLIGHTS – TIMES AND DISTANCES



AUCKLAND

	Hrs . Min	Km
› Apia	3.55	2 894
› Brisbane	3.40	2 296
› Cairns	5.15	3 620
› Hong Kong	11.05	9 223
› Melbourne	4.10	2 635
› Nadi	3.05	2 158
› Norfolk Island	1.55	1 091
› Nouméa	3.00	1 859
› Osaka	11.25	8 941
› Papeete	4.50	4 094
› Perth	7.45	5 335
› Rarotonga	3.50	3 015
› Singapore	10.15	8 409
› Sydney	3.30	2 160
› T'aipei	11.35	8 950
› Tokyo	10.55	8 907
› Tongatapu	2.50	2 004

CHRISTCHURCH

› Brisbane	3.50	2 295
› Melbourne	3.50	2 420
› Nadi	3.40	2 898
› Osaka	13.50	9 461
› Singapore	11.15	8 411
› Sydney	3.30	2 127

WELLINGTON

› Brisbane	4.00	2 511
› Melbourne	4.05	2 588
› Sydney	3.45	2 229

2. If a 747 left New Zealand for each of these destinations at 3 p.m. on a Wednesday, what day and time in each country would the plane arrive?

(You will need to also consult the International Country and Area Codes section of your phone book for this question. Daylight saving is not taken into account, so do not include this in your answers.)

3. Give each arrival time in question 2 as a 24 hour time.