

Antarctica Distances

WALT: Calculate and compare distances, speed and time.



SCOTT  BASE	
KILOMETERS TO	
SOUTH POLE 1353	CHRISTCHURCH 3832
WELLINGTON 4080	CANBERRA 4807
SANTIAGO 7079	BUENOS AIRES 7160
CAPE TOWN 7408	TOKYO 12760
WASHINGTON 14828	PARIS 16708
MOSCOW 16899	BRUSSELS 16930
LONDON 17039	OSLO 17839

Use AA sign from the Antarctic Centre to make your calculations.
Remember to show your working out.

How Far?

1. How many km's is it from **Scott Base** to the **South Pole**?
2. How many km's is it from Christchurch to the **Scott Base**?
3. How far is it from Christchurch to the **South Pole**?
4. How far is it from Cape Town (South Africa) to **Scott Base**?
5. How far is it from Cape Town to the **South Pole**?
6. Which city is closest to the South Pole? What country is that in?
7. What city is furthest from the South Pole? What country is that in?
8. Make a statement about the difference between the distance these two countries would have to travel to get to **Scott Base**.

How Long will it Take?

Watch the 6 minute video of [Flying to Scott Base from ChCh](#) on the C-17 to McMurdo Station (Scott Base)



There are two main Planes that travel from ChCh:

The Hercules C-130 - cruise speed @ 540 kmph (290 knots)

The C-17 Globemaster - cruise speed @ 830 kmph (450 knots)

Tip: Distance \div Speed = Time



Hercules C-130

1. How long would it take to travel in the Hercules C-130 from ChCh to Scott Base?
2. How long would it take to travel in the C-17 Globemaster from ChCh to Scott Base?
3. Make a statement comparing this information, remember to use 'because'.
4. Make up your own question (& answer) for a buddy to answer.

Answers:

How Far:

1. 1,353
2. 3,832
3. $3,832 + 1,353 = 5,185$
4. 4,708 7408km
5. $7,408 + 1,353 = 8,761\text{km}$
6. Christchurch - NZ
7. Oslo - Norway
8. $17,839 - 3832 = 14,007$. Oslo (Norway is 14,000km further from Scott Base than ChCh NZ)

How Long?

1. Hercules C-130 ChCh $3,832 \div 540 \text{ kmph} = 7 \text{ hours}$
2. C-17 Globemaster ChCh $3,832 \div 830 \text{ kmph} = 4.6 \text{ hours}$ (round up to 5hrs)
3. I think I would prefer to travel to Antarctica from ChCh in a C-17 Globemaster because it would only take 5 hours. This is two less hours than travelling on the Hercules C-130