Antarctica Distances

WALT: Calculate and compare distances, speed and time.





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

How Far?

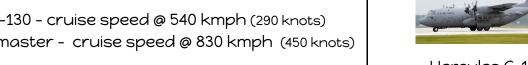
- 1. How many km's is it from Scott Base to the South Pole?
- 2. How many km's is it from Christchurch to the **Scott Base**?
- 3. How far is it from Christchurch to the **South Pole**?
- 4. How far is it from Cape Town (South Africa) to Scott Base?
- 5. How far is it from Cape Town to the South Pole?
- 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 + 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 = 8,761km
- 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 kmph = 7 hours
- 2. C-17 Globemaster ChCh 3,832 \div 830 kmph = 4.6 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 $\,$