# Time Including Twenty-Four Hour Time – Conversion between 12 hour and 24 hour clock.



## Example

Complete the following time conversions

	am/pm	24 hour
1.	3:45 pm	
2.	midday	
3.		1745 hours



1.

Remember that all pm times have 12 hours added to make 24 hour time.

3:45 pm = (3 + 12 hours) (45 minutes)

= 1545 hours

2. midday = 1200 hours

3. 1745 = (17 - 12) (45) and it is pm = 5.45 pm



# Convert the following to 24 hour times.

# Convert the following 24 hour times to am/pm times.

8.	1030 hours	=	



12. 2356 hours

Application Problem

Anna is going on a journey starting at 0730. She first has a 15 minute taxi ride, then a 5 hour 20 minute train ride, followed by a 45 minute bus journey and finally a 6 minute walk. When will she reach her destination?



## **Application Problems**

Answer the following questions.

- 14. A TV show starts at 1945 hours and finishes at 2150 hours.
  How long is the show?
- 15. A film starts at 11:15 am and finishes at \( \frac{1}{2}:10 \) pm How long is the film?
- **16.** A TV film starts at 1945 hours and lasts for 2 hours 20 minutes. When will it finish?
- 17. A TV show is 1 hour 25 minutes long and it finished at 1935 hours. When did it start?

A Freeview recorder has got a 24 hour display. What time will it need to be set, to record the following.

18. A film starts at 10:40 pm and finishes at 1 o'clock in the morning. Start

End

19. A rugby game starts at 2:30 in the morning and lasts 2 hours. Start

End



I found this work

Proportion completed

Date:

None

Few Half Most All

**Tables** – Use of simple tables and applications with timetables.



#### Example

The table below gives courier charges for books sent from Wanganui to major cities in New Zealand.

No. Books	North Island	South Island
6 or less	\$2.95	\$2.95
7 to 10	\$2.95	\$4.00
11 to 20	\$4.00	\$6.50
21 to 25	\$6.50	\$9.00
26 to 35	\$9.00	The second

Use the table above to answer the questions.

- Cost of sending 7 books to Napier. a)
- What is the cheapest way you can send b) 40 books-to Invercargill?



We know that Napier is in the North Island and Invercargill is in the South Island.

- 7 books to the Nth. Island
- 40 books to the Sth Island could be sent as 25 + 15 books or 2 x 20 books.
  - 25 + 15 books Sth. Island = \$9.00 + \$6.50

= \$15.50

2 x 20 books to the Sth Island = \$13.00 cheapest



#### **Application Problem**

Answer the following questions using the table above.

- 3 books to Nth Island =
- 2. 34 books to Auckland =
- 3. 17 books to Sth Island =

What is the cheapest solution to the following.

- 40 books to Auckland = 4.
- 5. 12 books to Nelson =
- 80 books to Wellington =

What is the greatest number of books that could be sent with the following amount of money.

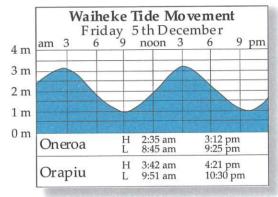
\$13 to Auckland =

Use the table of fictitious section and house prices for different cities to answer the questions.

Place	Section cost	House + Section
Auckland	\$225 000	\$695 000
Hamilton	\$193 000	\$595 000 \$551 000
Napier	\$141 000	
Wellington	\$215 000	\$612 000

- Which place has the cheapest sections? 8.
- Which city has the cheapest house price 9. (ignore the section cost)?

10. If you moved from Wellington to Auckland, how much more would you expect to pay for a house and section?



- What times are the high tide 11. at Orapiu?
- What is the time between low tides at Oneroa?
- What is the height difference 13. between high and low tide?



#### Communication Problem

Use the information in the tide chart above to answer this question. A fishing boat can only sail if there is 2 m of tide. Write the earliest start, length and latest finishing times of a day fishing trip.

Start Length

Finish



I found this work



None





Proportion completed Date: All Most