

Hotel San Marco offers special rates to its guests when they book an activity for the times listed in the table.

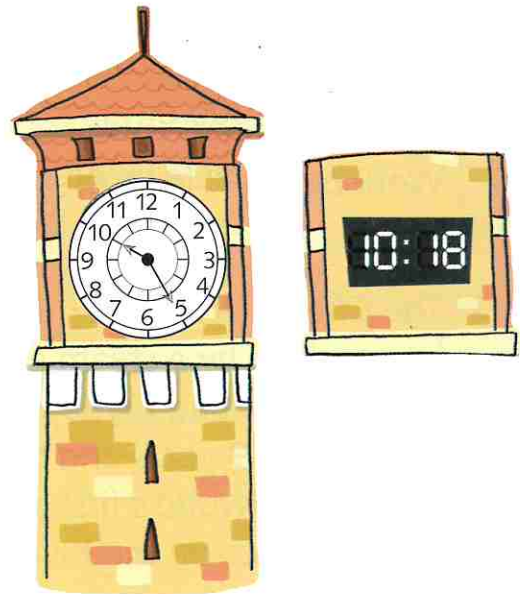
Donna jots down the activity times from the hotel notice board and makes a list of what she would like to do on her holiday.

Activity	Start time	Finish time
Water skiing	15:15	17:10
Rock climbing	08:30	13:00
Canoeing	13:45	16:15
Tennis coaching	10:30	11:30
Mountain biking	10:00	13:30
Island trip by boat	14:00	17:45

- Which activity takes the shortest time?
- Which activity starts at 1:45 p.m.?
- Which activity finishes at 10 past 5 in the afternoon?
- Which activity takes  $4\frac{1}{2}$  hours?
- List two activities Donna can do on the same day. Work out how long each activity will last.
- Donna takes the boat trip to the island. The return trip is delayed by 20 minutes as the boat has to wait for late passengers.
  - At what time does Donna get back to the mainland?
  - How long did the whole boat trip take?



- Donna is puzzled about the time. The hands on the clock tower clock show 25 minutes past 10 and the digital clock in the village square shows 10:18. A local resident tells her that one clock is always 4 minutes fast and the other is 3 minutes slow. What is the actual time?



- On a 24-hour digital clock there are times when the minutes digits add up to the hours digit, for example 11:56 and 14:59. Which hours have the most of these times?



# Time problems

Use all four operations to solve problems involving time



Copy and complete.

a 2 min =        s

b 4 min =        s

c 2 h =        min

d 6 h =        min

e 2 days =        h

f 10 days =        h

g 2 weeks =        days

h 7 weeks =        days

i 2 years =        months

j 5 years =        months



1 For how many months have a couple been married when they celebrate:

- a their Silver Wedding Anniversary?
- b their Ruby Wedding Anniversary?
- c their Golden Wedding Anniversary?

### Hint

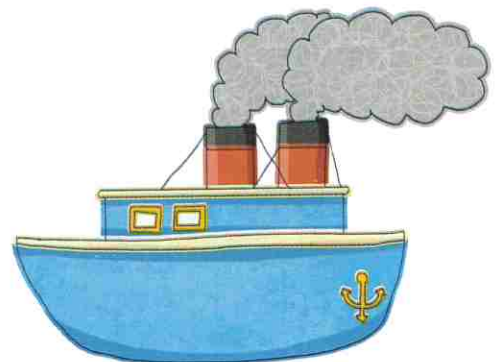
Silver Wedding: 25 years  
 Ruby Wedding: 40 years  
 Golden Wedding: 50 years

2 Anne Boleyn was the second wife of King Henry VIII. She was his queen for 1000 days.

Work out how long she was Queen of England in years and days.

3 The *Charlotte Dundas*, the world's first boat to be powered by a steam engine, began service on the Forth and Clyde Canal in March 1803. A period of 9 years and 5 months later the *Comet*, the world's first passenger steamboat, began service on the River Clyde.

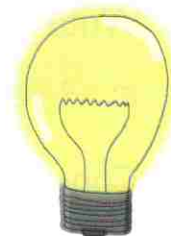
Write the month and the year when the *Comet* began service.



- 4 A cruise liner is on a round-the-world voyage.
- a The cruise liner takes 51 days to sail from Southampton, via the Americas, to Sydney in Australia. How long is the cruise in weeks and days?
  - b The cruise liner then takes 61 days for the return voyage from Sydney, via Asian ports, to Southampton. How long is the return voyage in weeks and days?
  - c How many weeks does it take the cruise liner to complete its world voyage?



- 5 A company claims that its new longer life light bulb will last for 5 years. For how many days should the light bulb last?
- 6 There are 365 days in one year. What is the date that is exactly halfway through the year?



- 1 The first ancient Olympic Games were held in Olympia, Greece in 776 BC. The last ancient Olympic Games were held in AD 392. How many years is it:

- a from 776 BC to the present year?
- b from 776 BC to AD 392?

- 2 The ancient Olympic Games were held every 4 years. How many ancient Olympic Games were held between 776 BC and AD 392?

- 3 The first modern Olympic Games were held in Athens in 1896. How many years is it from the first ancient Olympic Games to the first modern Olympic Games?

- 4 The modern Olympic Games have been held every 4 years except for in 1916, 1940 and 1944. How many modern Olympic Games have there been from Athens in 1896 to London in 2012?

