

- 1) If today is Monday, then in 31 days it will be Thursday. This is because  $31 \div 7$  (days in a week) is 28 with a remainder of 3. That means the 28<sup>th</sup> day would be a Monday therefore 3 days on would be a Thursday.
- 2) April, June, September and November all have 30 days. May, July, August and October all have 31 days. December till Christmas is 25 days. Therefore  $(4 \times 30) + (4 \times 31) + 25 = 269$ .  $269 \div 7 = 38$  remainder 3. The 38<sup>th</sup> set of 7 will end on a Thursday, therefore 3 days on will be a Sunday.
- 3) A leap year has 366 days in it.  $366 \div 7 = 72$  with a remainder of 2. therefore the end of the 72 sets of 7 will be a Friday, so 2 days on will be Sunday.