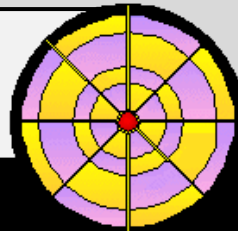


The Daily Rigour

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Your free weekly numeracy newspaper!

Full Moon schedule for 2019

A Full Moon is the phase of the moon in which its whole disc is illuminated.

The Full Moon phase repeats every 29.531 days - this period of time is known as one synodic month.

The first Full Moon of 2019 happens a week on Monday at 5:17 am. Can you figure out the dates of all the Full Moons in 2019?

SCIENCE



An interesting savings plan for 2019

If you know someone who has saving money as a New Years resolution, get them to try this little saving challenge for 2019.

The 365-Day Money Challenge by Apartment Therapy involves putting away small amounts every day, which all add up over the course of year but don't leave you feeling out of pocket while you're saving.

The plan involves saving £1 on a Sunday (or whichever day you like) £2 on Monday (or whichever the next day is) and so on, until it gets to Saturday (or the seventh day) where you put aside £7 - after that the whole thing starts again the following week.

If a person successfully completes this challenge, how much would they manage to save in 2019?

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Andy Murray announces impending retirement plans

Two-time Wimbledon champion

Andy Murray has announced his impending retirement as he struggles with a hip injury. The Scotsman is one of Britain's greatest ever sportsmen and shown below are a few head-to-head records against past opponents.

Opponent	Matches	Won	Lost
Carlos Moya	2	2	0
Tim Henman	4	3	1
Tommy Haas	3	2	1



(a) Again each opponent, what percentage of matches has Andy won?

Throughout his career (so far) Andy has played 450 matches and won 299 of them.

(b) What percentage of matches has Andy won altogether in his career?

Round your answer to one decimal place!

Millionaire couple raffle £3million home - then change the prize to £100 000!

A millionaire couple set up a raffle in order to sell their gorgeous £3m home but after only selling 30 000 of the 250 000 £25 tickets, they decided to slash the winning prize to £110k while keeping the six-bed house and also keeping the change!

(a) How much change did the couple keep?

(b) Had the couple sold the correct number of tickets and gave their house away as the prize, how much of a profit did they stand to make?

