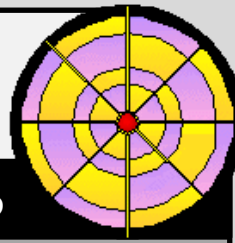


The Daily Rigour

Sun 13th November 2016

Issue No. 26



Your free weekly numeracy newspaper!

Donald Trump wins US presidency

Citizens of the United States do not directly elect the president. Instead, they choose "electors" who pledge beforehand to vote for the candidate of a particular party.

There are currently 538 electors.

- (a) Explain why the first candidate to reach 270 votes wins.
- (b) Hilary Clinton received 62 fewer electoral votes than Trump and Trump received 20 more than the 270 votes required to win. How many electoral votes did Hilary Clinton and Donald Trump each receive?



Toblerone triangle change upsets fans

The Toblerone bar is being redesigned for the UK market; its Alpine peaks are being eroded to compensate for the rising cost of ingredients, and a lighter bar is being sold for the same price.

The 400g bar is now a 360g bar and instead of 15 peaks it boasts only 11.



- (a) Calculate the % weight loss.
- (b) The dimensions of the box remain unchanged. It is still in the shape of a triangular prism and measures 5cm by 5.4cm by 30.6cm.

Calculate the volume of a box of Toblerone.



Maths is Pointless on a Thursday!

On Thursday a maths question stood between contestants and a place in the Pointless final.

In the questions below explain each rule and calculate the next term in the sequences.

MATHEMATICAL SEQUENCES

1, 1, 2, 3, 5

1, 4, 9, 16, 25

2, 3, 5, 7, 11

10, 100, 1000, 10,000, 100,000

1, 8, 27, 64, 125

ENTERTAINMENT

Futuristic Railway System Planned For Dubai

In an announcement earlier this week, California-based Hyperloop One said it had agreed a deal with Dubai in the United Arab Emirates to look into building a track between Dubai and the capital, Abu Dhabi.

The 90 mile journey takes two hours by car but could be cut to just 12 minutes by Hyperloop.

What would the average speed of this journey by Hyperloop be, in miles per hour?



by Cdmasterworks Ltd