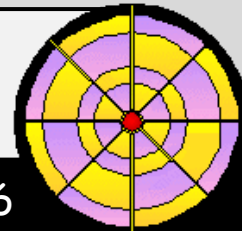


# The Daily Rigour

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Your free weekly numeracy newspaper!

## World Cup 2018 gets underway in Russia

The FIFA World Cup got underway on Thursday as the host nation, Russia, defeated Saudi Arabia. Altogether, there are 32 countries battling it out to lift the trophy on Sunday the 15<sup>th</sup> of July.

The teams are split into groups of 4 and each team needs to play all the other teams in their group. After all these matches, the top two teams qualify for the next stage.

(a) How many matches in total are played in a single group?

After the group stage, the top two teams qualify to the last 16 round where each team plays one match with the winners qualifying for the quarter finals, then the semi-finals followed by the final. There is also a 3<sup>rd</sup> place play-off match to determine the 3<sup>rd</sup> and 4<sup>th</sup> place teams.

(b) How many matches in total are played in the entire tournament?



FIFA WORLD CUP

RUSSIA 2018

SPORT

## UAE supermarkets may soon begin charging for plastic bags

Long since standard practice in many other countries, supermarkets in the UAE have been slow on the uptake when it comes to charging customers for plastic shopping bags at the checkout counter. But it looks like that could be about to change with the beginning of trials that will take place in various supermarkets in Abu Dhabi.

Customers visiting any of the participating supermarkets will be charged 0.25 Dirhams per plastic bag, rather than be given them for free.

The current exchange rate is £1 = 4.88 UAE Dirhams.

Will the cost of a plastic bag in the UAE be the same as it is in Britain? You must give a reason for your answer!



by Cdmasterworks Ltd

## Honeybees are surprisingly great at maths!

Believe it or not, zero is an extremely hard concept to understand for humans. But our ability to grasp zero as a distinct numerical value is a vital part of modern mathematics, engineering, and technology.

We already knew that the honeybee is no dummy. In previous studies, researchers have found that stingers have the ability to count and discriminate objects in quantities of up to four.

In a new study, scientists at the University of Melbourne, Australia wanted to know if the buzzers could also prove their understanding of zero as a quantitative value.



The team was surprised to find that the bees could discriminate a value of one from zero with moderate ability, and that success increased when higher values were compared to zero.

How well do you understand zero? Try and answer the questions below, Will you answer them all correctly or will you get NOTHING?

1.  $9 + 0$

2.  $0 \times 7$

3.  $5 \div 0$

## Weather forecast for Glasgow

The temperature in Glasgow today will be 20°C. To change degrees Celsius into Fahrenheit, you use the following formula;

$$F = \frac{9}{5}C + 32$$

Can you change  
20°C into  
Fahrenheit?



WEATHER