COMP9020 18s1   Week 5 Problem Set   Foundations of Computer
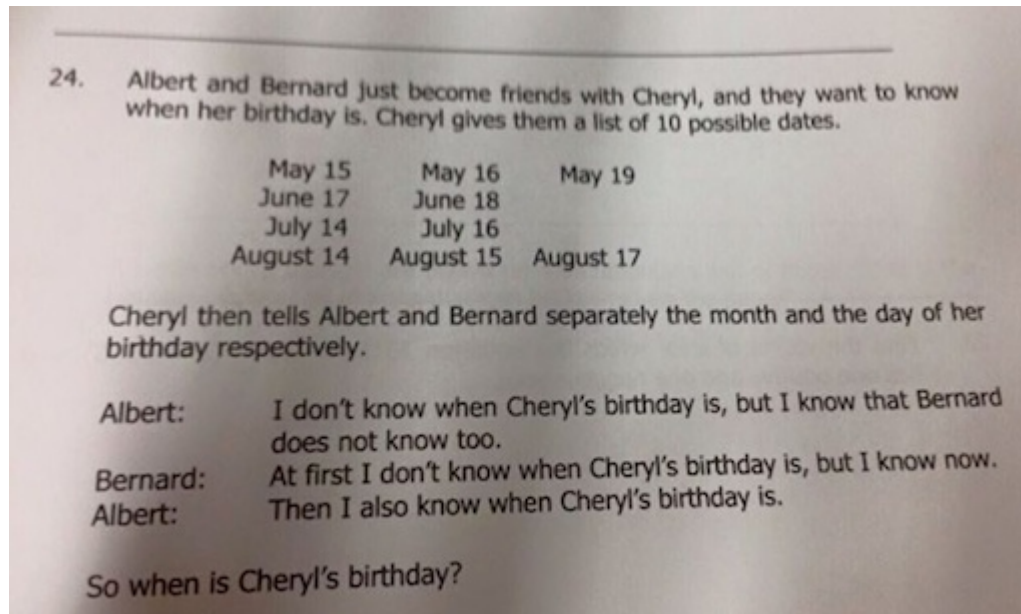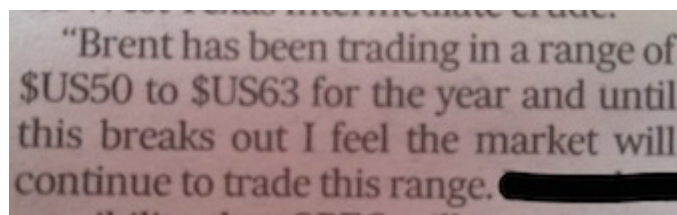   Fun with Logic   Science

[Show with no answers]   [Show with all answers]

1. The following problem from a School Math Olympiad in Singapore went viral a while ago. Can you solve it?

24.   Albert and Bernard just become friends with Cheryl, and they want to know when her birthday is. Cheryl gives them a list of 10 possible dates.

        May 15   May 16   May 19
        June 17   June 18
        July 14   July 16
        August 14   August 15   August 17

Cheryl then tells Albert and Bernard separately the month and the day of her birthday respectively.

Albert: I don't know when Cheryl's birthday is, but I know that Bernard does not know too.
Bernard: At first I don't know when Cheryl's birthday is, but I know now.
Albert: Then I also know when Cheryl's birthday is.

So when is Cheryl's birthday?

[show answer]

2. From the *Australian Financial Review*: An analyst tries to predict the future price of Brent oil. How informative do you think this prediction is?

"Brent has been trading in a range of $US50 to $US63 for the year and until this breaks out I feel the market will continue to trade this range.

[show answer]