

Reasoning and Enquiry Problems – Set 1



1. Joe, Steve, Rachael and Gina agree to clear up an overgrown garden for a set fee of £84.70

Everyone works for 5 hours, apart for Rachael, who was 45 minutes late.

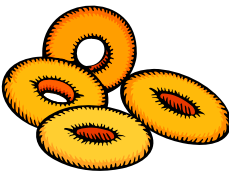
How much should each person be paid ?



2. Smoking has long been connected with serious diseases such as lung cancer, emphysema and heart disease. It has been estimated that for every cigarette a person smokes, as much as 15 minutes could be lost from that person's lifespan. If this is true, how much shorter would the life span be of someone who smoked two packs of cigarettes a day for 35 years ? (A pack contains 20 cigarettes.) Give your answer in years, days, hours and minutes.



3. I am thinking of a number. I multiplied my number by 3, subtracted 8, doubled the result and then added 14. I then added 50% of what I had and subtracted 11. Then I divided by 5. After all of that, I was left with 8. What number did I start with ?



4. Four maths teachers came into a bakery. The first said " Give me half of all the doughnuts you have left, plus half a doughnut more, please." The second said " Give me half of all the doughnuts you have left, plus half a doughnut more, please." The third said " Give me three doughnuts." The fourth said " Give me half of all the doughnuts you have left, plus half a doughnut more, please." The last transaction emptied the shop of doughnuts ! How many doughnuts were there to start with ?