Sample Questions on Logical Reasoning

PRINCIPLES OF PROGRAMMING USING C

Course Code: 22CS23

1. In an examination, 78% of the total students who appeared were successful. If the total number of failures was 176 and 34% got first class, then how many students got first class?
2. 10 programmers are able to type 10 lines in 10 minutes. How many programmer are required to type 60 lines in 60 minutes?
3. Anil works for 8 straight days and rest on the 9th day. If he starts his work on Monday, then on which day he gets his 12th rest day?
4. One man can do a piece of work in 3 hours; another can do the same piece of work in 2 hours. How long will they take if they work together?

# A and B, working together can complete a job in 3 hours. If A alone can do the job in 721​ hours, in how much time can B alone finish the job ?

1. **A** bat and a ball cost £1.10 in total. The bat costs a pound more than the ball. How much does the ball cost? (Intuitive answer 10 pence; correct answer 5 pence).
2. If it takes 5 machines 5 minutes to make 5 widgets, how long would it take 100 machines to make 100 widgets? (Intuitive answer 100 minutes; correct answer 5 minutes).
3. In a lake, there is a patch of lily pads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half the lake? (Intuitive answer 24 days; correct answer 47 days).
4. A man buys a pig for £60, sells it for £70, buys it back for £80, and sells it finally for £90. How much has he made? (Intuitive answer £10; correct answer £20).
5. Simon decided to invest £8,000 in the stock market one day early in 2008. Six months after he invested, on July 17, the stocks he had purchased were down 50%. Fortunately for Simon, from July 17 to October 17, the stocks he had purchased went up 75%. At this point, Simon has: a.  broken even in the stock market. b. is ahead of where he began. c. has lost money. (Intuitive answer b; correct answer c  value is £7000).
6. Jerry received both the 15th highest and the 15th lowest mark in the class. How many students are in the class? (Intuitive answer 30; correct answer 29).
7. If you’re running a race and you pass the person in second place, what place are you in? (Intuitive answer 1st; correct answer 2nd).
8. A farmer had 15 sheep and all but 8 died. How many are left? (Intuitive answer 7; correct answer 8).
9. Emily’s father had three daughters. The first two are named April and May. What is the third daughter’s name? (Intuitive answer June; correct answer Emily).
10. How many cubic feet of dirt are there in a hole that 3’ deep x 3’ wide x 3’ long? (Intuitive answer 27; correct answer none).