6-A-Day – Computer Science GCSE (26)

Q1	Clock Speed: The higher the clock speed the faster the CPU will run Represents the number of fetch execute cycles / instructions the CPU can process in a given time Cache size the more cache the CPU has the less time is spent accessing memory / programs run faster cache is faster than memory/ built into the CPU/contains frequently accessed data (max 2 each)	4
Q2	Username: 2012johnsonm year 2012, surname: Johnson, initial m As there are no other johnsons (so the answer to the decision will be NO) Username must be spelt correctly, but accept 12johnsons	nsonm
Q3	 The pupil joined in 2010 The pupil's surname is Ali The pupil's initial is M There were (at least) 3 other pupils called M. Ali in the same year 	4

Q4 2 Translates one line of HL code at a time... ... and executes it ... stops when it finds an error ... can be resumed Q5 EXAMPLE: Several very different algorithms possible, but any correct INPUT Distance solution will address all stated bullet points. INPUT Passengers eg Cost = (Distance * 2) + 1 Extra = Distance - 1 Satisfies bullets 2, 3 and 4. CostofExtra = Extra * 2 Cost = 3 + CostofExtra Candidates do not need to have considered cases where the IF Passengers > 4 THEN distance < 1. Surcharge = Cost / 2 Cost = Cost + Surcharge END IF OUTPUT COST Award marks for: Inputs distance and passengers Calculates distance - 1 (or equivalent) Calculates previous answer * 2(or equivalent) Calculates previous answer + 3 Checks if more than 4 passengers... ... and adds 50% correctly Outputs cost Q6 A Boolean data type is one which has only two possible values... ...denoted by True (1) and False (0)... ...intended to represent the truth values of logic.