- How many digits does $100!$ have? (Hint: consider function $\log_{10}x$)

- Prove that product of 3 consecutive numbers divisible by 6.

- $\forall$ $x^3 + ax^2 + bx + c = 0$ Does Can x be a rational root?

- Sketch $\dfrac{ax^3 + bx^2}{(x+e)(x+f)}$ Check.

- Logic Question: (Wason Selection Tasks)

- Player A & B plays a game by flipping a biased coin with probability of head p. A plays win if flag get ahead. If player A gets tail than to player B's turn to flip coin A if plays ba B gets tail that it goes back to player A's turn. Player A starts the game. Find probability that player A wins.

- Given 3 platonic solids, find a relationship between edge vertices 4-faces. (Euler formula).

- find $\dfrac{d}{dx} x^x$, $\dfrac{d}{dx} x^{x^{\cdots}}$