

Helen Malkinson

hem58@scarletmail.rutgers.edu

1) who is kurt gödel?

one of the greatest mathematicians
of the 20th century

2) how old was gauss when he
created $\frac{n(n+1)}{2}$? he was 7 years
old

$$\begin{aligned} 3) 54 \times 57 &= (5 \times 10 + 4 \times 1) \times (5 \times 10 + 7 \times 1) \\ &= (5 \times 5 \times 100) + (4 \times 7 \times 1) \\ &= (2 \times 10 + 5) + (2 \times 10 + 8) \end{aligned}$$

Part 71

$$\begin{aligned} 1) a) 182 &= 1 \times 100 + 8 \times 10 + 2 \times 1 = 1 \times 10^2 + 8 \times 10^1 + 2 \times 10^0 \\ &= \cancel{1 \times 10^2} + \cancel{8 \times 10^1} + \cancel{2 \times 10^0} \end{aligned}$$

$$b) 182 = 4 \times 5^2 + 16 \times 5^1 + 2 \times 5^0$$

$$\begin{aligned} 2) 1000,001 &\rightarrow 2^6 + 2^0 = 65 \\ 2^6 & \cancel{2^5} \cancel{2^4} \cancel{2^3} \cancel{2^2} \cancel{2^1} \cancel{2^0} \end{aligned}$$