

$(10000001)_2$

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# About this

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- A  $(129)_{10}$ ,  $(81)_{16}$ , same thing, different looks
- B What will be here?
- C How?
- D Thoughts!

# The point is this...

(10000001)<sub>2</sub>

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Because of this, there is that

$$\sum_{k=0}^n k^2 = \frac{n(n+1)(2n+1)}{6}$$

for example,  $n = 2$

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Then  $\sum_{0 \leq k \leq 2} k^2$  gives  $0 + 1 + 4 = 5$ , and on the other side  $n = 2$  and  $\frac{n(n+1)(2n+1)}{6}$  sets as  $\frac{2(2+1)(2 \times 2 + 1)}{6}$ , or in concrete  $\frac{2 \times 3 \times 5}{6}$ , or even just 5.



*Fifteen men on the dead man's chest—  
Yo-ho-ho, and a bottle of rum!*