

$(10000001)_2$

Gunter Liszewski

Belfast, August 2018

About this

$(10000001)_2$

Gunter Liszewski

A $(129)_{10}$, $(81)_{16}$, same thing, looks different

A $(129)_{10}$, $(81)_{16}$, same thing, looks different

B What will be here?

A $(129)_{10}$, $(81)_{16}$, same thing, looks different

B What will be here?

C How?

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

The point is this...

$(10000001)_2$

Gunter Liszewski

Because of this, there is that

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

for example, $n = 2$

$(10000001)_2$

Gunter Liszewski

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!"