11 $3+6+9+12+15+18+21$

$a_n = 3n = 3, 6, 9, 12, 15$

$\sum_{i=1}^{7}(3i)$ $\sum_{K=1}^{7} 3k = 7\left(\frac{3+21}{2}\right)$

23. $\sum_{i=1}^{30}(5i+10) = 30\left(\frac{15+160}{2}\right)$

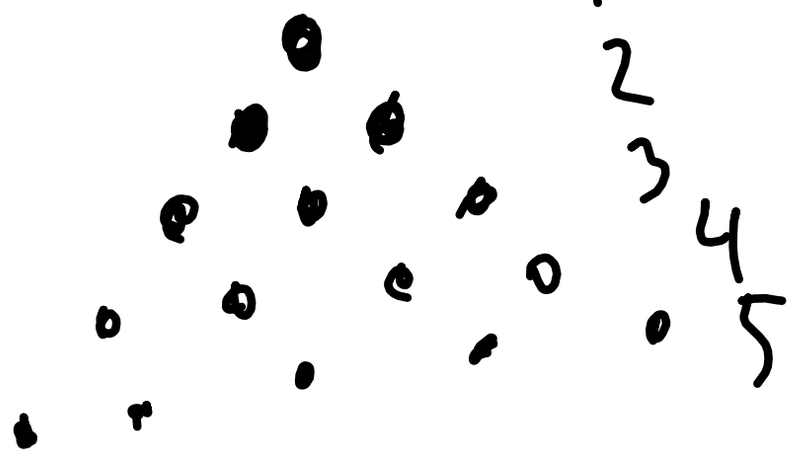
$= 2625$

25

$$\sum_{n=0}^{10} 8 - 4n = 11\left(\frac{8 + -32}{2}\right)$$

$$= 11(-12) = -132$$

30)

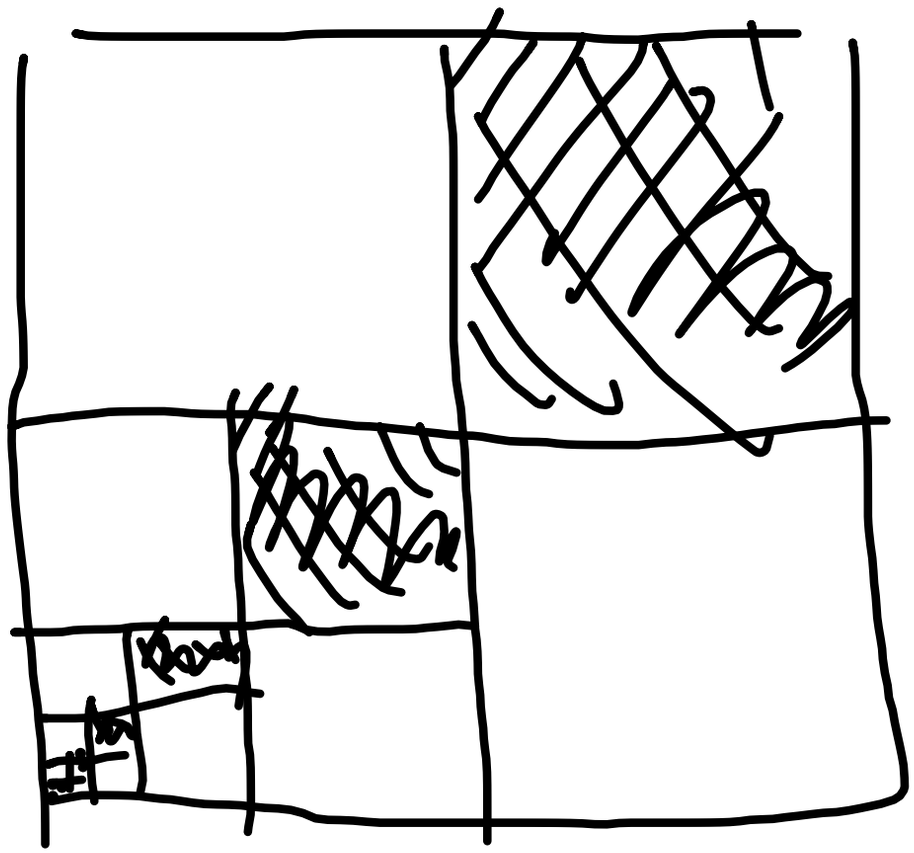


฿400 = 1600 quarters

$$\frac{m(m+1)}{2} = \sum_{i=1}^{m} i \geq 1600$$

$$m(m+1) \geq 3200$$

$$m = 57$$



$$\frac{1}{4}+\frac{1}{16}+\frac{1}{64}+$$

$$=\frac{1}{3}$$