

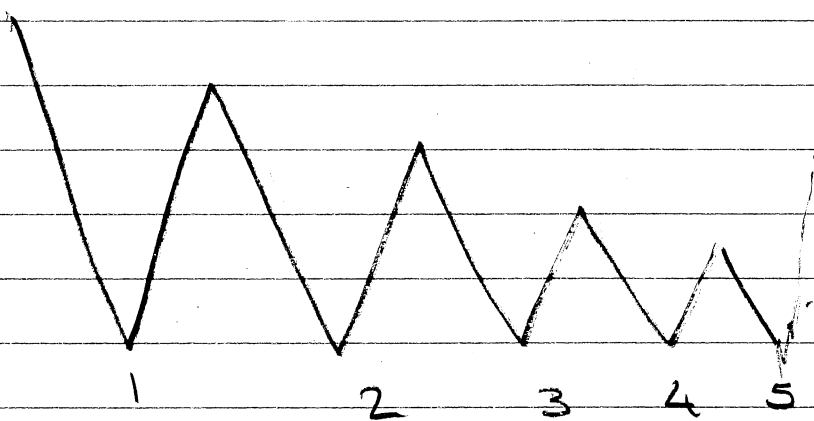
4320

$$S_n = \frac{a_1(1-k^n)}{(1-k)}$$

$$S_n = \frac{20(1-0,5^n)}{0,5}$$

$$= 40(1-0,5^n) \quad \text{mg}$$

4321



Bollen har rört sig 5 ner + 4 up

$$S_{\text{ner}} = \frac{6,5(1-0,8^5)}{(1-0,8)}$$

$$= 32,5(1-0,8^5)$$

$$\approx 21,85$$

$$S_{\text{upp}} = \frac{5,2(1-0,8^4)}{1-0,8}$$

$$= 15,35$$

$$a) \text{ Sträckan} = 21,85 + 15,35 = 37,2 \text{ m}$$