

Q1. $528000 \times 1.024^4 = \pounds 580542.14$

$\rightarrow \pounds 5801000$

Q2. Newton Y1 $50000 \times 1.05 = 52500$

100% + 5% Y2 $52500 \times 1.05 = 55125$

= 105% Y3 $55125 \times 1.05 = 57881.25$

= 1.05 Y4 $57881.25 \times 1.05 = 60775.3125$

Coaltown Y1 $108000 \times 0.8 = 86400$

100% - 20% Y2 $86400 \times 0.8 = 69120$

= 80% = 0.8 Y3 $69120 \times 0.8 = 55296$

After three ~~3~~ years, the population of Newton will be greater.

Q3. $77900 \times 1.025 = \pounds 79847.50$

$\rightarrow \pounds 79800$

Q4. (a) $35000 - 32200 = \pounds 2800$ decrease

$\frac{2800}{35000} \times 100 = 8\%$

(b) $32200 \times \del{1.08} 0.92^3 = \pounds 25073.75$

$\rightarrow \pounds 25100$

Q5. 100% - 4% = 96%. 8pm \rightarrow 11pm = 3hrs

$28 \times 0.96^3 = \underline{24.8^\circ\text{C}}$

Q6. $\pounds 28400 \times 1.023^3 = \pounds 30405.02$

$\rightarrow \pounds 30405$

Q7. $50000 \times 1.045^4 = \underline{\pounds 59625.93}$

MEMORANDUM FOR THE DIRECTOR

DATE: 10/10/50

SUBJECT: [Illegible]

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