## Solutions

**2.1**

- 6,000 × 0.19 = 1,140; 2,000 × 0.18 = 360; 300 × 0.22 = 66; total 1,566 kg.
- 1,566,000/12,000 = 130.5 g a pastry.

**2.2**

- Flour 600 × 0.55 = 330 kg; cradle-to-gate 1,896 kg.
- Rise 330/1,566 = 21.1%.

**2.3**

- Electricity 6,000 × 0.06 = 360; site 360 + 360 + 66 = 786 kg.
- Site fall 1 − 786/1,566 = 49.8%; cradle-to-gate 1 − 1,116/1,896 = 41.1%.

**2.4**

- 500 trays a week; pool 1,000 × 6 = 6,000. Losses 500 × 0.03 × 52 = 780 trays = 4,680; wash 26,000 × 0.04 = 1,040; running 5,720.
- Saves 6,500 − 5,720 = 780 a year; payback 6,000/780 = 7.7 years.
- Breakeven: losses may cost 6,500 − 1,040 = 5,460, so 1 − 5,460/156,000 = 96.5% returns.



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