



5. A notice on Morecambe promenade reads: 'It would take 20 million years to fill Morecambe Bay from a bath tap.' Assuming that the flow from the bath tap is 6 litres a minute, what does the notice imply is the approximate capacity of Morecambe Bay in litres?

A 6×10^{10} B 6×10^{11} C 6×10^{12} D 6×10^{13} E 6×10^{14}

1075



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5. **D** If the statement is true then the capacity (in litres) of Morecambe Bay is approximately:
- $$20 \times 10^6 \times 365 \times 24 \times 60 \times 6 = 10^8 \times (6 \times 365) \times (2 \times 24) \times 6$$
- $$\approx 6 \times 10^8 \times 2000 \times 50 = 6 \times 10^{13}.$$