



## POWERS OF TWO AND TEN

### NO CALCULATOR

Ref: G181. **1S2**


<b>A1</b> Find $2^5$	<b>A2</b> Find $2^9$	<b>A3</b> Find $10^5$	<b>A4</b> Find $10^9$
<b>B1</b> Find $2^2 + 2^4 + 2^6$	<b>B2</b> Find $2^7 + 2^3 + 2^5$	<b>B3</b> Find $10^6 + 10^3$	<b>B4</b> Find $10^3 + 10^7 + 10^4$
<b>C1</b> Find $4 \times 2^4$	<b>C2</b> Find $10 \times 2^{10}$	<b>C3</b> Find $2 \times 10^4$	<b>C4</b> Find $2^4 \times 10^4$
<b>D1</b> Find $10^4 - 10^3$	<b>D2</b> Find $10^5 - 10^3$	<b>D3</b> Find $10^5 - 10^3 - 10$	<b>D4</b> Find $10^6 - 10^4 - 2^4$
<b>E1</b> Find $2^7 - 2^6$	<b>E2</b> Find $2^8 - 2^5 - 2^2$	<b>E3</b> Find $2^{10} - 10^2$	<b>E4</b> Find $\frac{2^7 + 2^5}{2^4 + 2^6}$



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<b>A1</b> Find $2^5 = 2 \times 2 \times 2 \times 2 \times 2$ $= 32$	<b>A2</b> Find $2^9 = 512$	<b>A3</b> Find $10^5 = 100\,000$	<b>A4</b> Find $10^9 = 1\,000\,000\,000$ 
<b>B1</b> Find $2^2 + 2^4 + 2^6 = 4 + 16 + 64$ $= 84$	<b>B2</b> Find $2^7 + 2^3 + 2^5 = 128 + 8 + 32$ $= 168$	<b>B3</b> Find $10^6 + 10^3 = 1\,000\,000 + 1\,000$ $= 1\,001\,000$	<b>B4</b> Find $10^3 + 10^7 + 10^4$ $= 1\,000 + 10\,000\,000 + 10\,000$ $= 10\,011\,000$
<b>C1</b> Find $4 \times 2^4 = 4 \times 16$ $= 64$	<b>C2</b> Find $10 \times 2^{10} = 10 \times 1024$ $= 10\,240$	<b>C3</b> Find $2 \times 10^4 = 2 \times 10\,000$ $= 20\,000$	<b>C4</b> Find $2^4 \times 10^4 = 16 \times 10\,000$ $= 160\,000$
<b>D1</b> Find $10^4 - 10^3 = 10\,000 - 1\,000$ $= 9\,000$	<b>D2</b> Find $10^5 - 10^3 = 100\,000 - 1\,000$ $= 99\,000$	<b>D3</b> Find $10^5 - 10^3 - 10$ $= 100\,000 - 1\,000 - 10$ $= 98\,990$	<b>D4</b> Find $10^6 - 10^4 - 2^4$ $= 1\,000\,000 - 10\,000 - 16$ $= 989\,984$
<b>E1</b> Find $2^7 - 2^6 = 128 - 64$ $= 64$	<b>E2</b> Find $2^8 - 2^5 - 2^2 = 256 - 32 - 4$ $= 220$	<b>E3</b> Find $2^{10} - 10^2 = 1024 - 100$ $= 924$	<b>E4</b> Find $\frac{2^7 + 2^5}{2^4 + 2^6} = \frac{128 + 32}{16 + 64} = \frac{160}{80}$ $= 2$