Use these tables for reference when solving the problems on this page.

| | | | | | |
|---|---|---|---|---|---|
| $2^1$ | 2 | $3^1$ | 3 | $5^1$ | 5 |
| $2^2$ | 4 | $3^2$ | 9 | $5^2$ | 25 |
| $2^3$ | 8 | $3^3$ | 27 | $5^3$ | 125 |
| $2^4$ | 16 | $3^4$ | 81 | $5^4$ | 625 |
| $2^5$ | 32 | $3^5$ | 343 | $5^5$ | 3 125 |
| $2^6$ | 64 | $3^6$ | 729 | $5^6$ | 15625 |
| $2^7$ | 128 | $3^7$ | 2 187 | $5^7$ | 78125 |
| $2^8$ | 256 | $3^8$ | 6 561 | $5^8$ | 390 625 |
| $2^9$ | 512 | $3^9$ | 19 683 | $5^9$ | 1 953 125 |
| $2^{10}$ | 1 024 | $3^{10}$ | 59 049 | $5^{10}$ | 9 765 625 |
| $2^{11}$ | 2 048 | $3^{11}$ | 177 147 | $5^{11}$ | 48 828 125 |
| $2^{12}$ | 4 096 | $3^{12}$ | 531 441 | $5^{12}$ | 244 140 625 |
| $2^{13}$ | 8 192 | $3^{13}$ | 1 594 323 | $5^{13}$ | 1 220 703 125 |
| $2^{14}$ | 16 384 | $3^{14}$ | 4 782 969 | $5^{14}$ | 6 103 515 625 |

1. Find as many pairs of factors as you can that multiply to 2048,
   e.g. 2 x 1 024 = 2 048

2. If $25^2 = 625$, how do you find the square of numbers in these tables?

3. If the square root of 81 is 9 ($\sqrt{81}=9$), how can you find the square root of numbers in these tables?

4. Try dividing a power of two by a different power of two.
   For example, 4096 ÷ 512 =
   Is the answer always in the table? Why? Does that work for powers of three and five?

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