

覚えておくと便利な計算

【平方数(1の位が5)】

$$\begin{aligned}25 \times 25 &= 625 \\35 \times 35 &= 1225 \\45 \times 45 &= 2025 \\55 \times 55 &= 3025 \\65 \times 65 &= 4225 \\75 \times 75 &= 5625 \\85 \times 85 &= 7225 \\95 \times 95 &= 9025\end{aligned}$$

【平方数】

$$\begin{aligned}11 \times 11 &= 121 \\12 \times 12 &= 144 \\13 \times 13 &= 169 \\14 \times 14 &= 196 \\15 \times 15 &= 225 \\16 \times 16 &= 256 \\17 \times 17 &= 289 \\18 \times 18 &= 324 \\19 \times 19 &= 361\end{aligned}$$

【2の累乗】

$$\begin{aligned}2^3 &= 2 \times 2 \times 2 = 8 \\2^4 &= 2 \times 2 \times 2 \times 2 = 16 \\2^5 &= 2 \times 2 \times 2 \times 2 \times 2 = 32 \\2^6 &= 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64 \\2^7 &= 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 128 \\2^8 &= 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 256 \\2^9 &= 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 512 \\2^{10} &= 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 1024\end{aligned}$$

【便利なかかけ算】

$$\begin{aligned}4 \times 25 &= 100 \\8 \times 125 &= 1000 \\12 \times 15 &= 180 \\4 \times 0.25 &= 1 \\8 \times 0.125 &= 1\end{aligned}$$

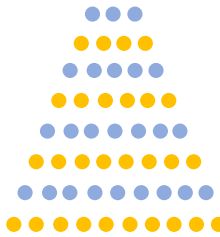
【立方数】

$$\begin{aligned}2 \times 2 \times 2 &= 8 \\3 \times 3 \times 3 &= 27 \\4 \times 4 \times 4 &= 64 \\5 \times 5 \times 5 &= 125 \\6 \times 6 \times 6 &= 216 \\7 \times 7 \times 7 &= 343 \\8 \times 8 \times 8 &= 512 \\9 \times 9 \times 9 &= 729\end{aligned}$$

【円周率の整数倍】

$$\begin{aligned}2 \times 3.14 &= 2.68 \\3 \times 3.14 &= 9.42 \\4 \times 3.14 &= 12.56 \\5 \times 3.14 &= 15.70 \\6 \times 3.14 &= 18.84 \\7 \times 3.14 &= 21.98 \\8 \times 3.14 &= 25.12 \\9 \times 3.14 &= 28.26\end{aligned}$$

【三角数】

$$\begin{aligned}1 &= 1 \\1+2 &= 3 \\1+2+3 &= 6 \\1+2+3+4 &= 10 \\1+2+3+4+5 &= 15 \\1+2+3+4+5+6 &= 21 \\1+2+3+4+5+6+7 &= 28 \\1+2+3+4+5+6+7+8 &= 36 \\1+2+3+4+5+6+7+8+9 &= 45\end{aligned}$$


【四角数】

$$\begin{aligned}1 &= 1 \\1+3 &= 4 \\1+3+5 &= 9 \\1+3+5+7 &= 16 \\1+3+5+7+9 &= 25 \\1+3+5+7+9+11 &= 36 \\1+3+5+7+9+11+13 &= 49 \\1+3+5+7+9+11+13+15 &= 64 \\1+3+5+7+9+11+13+15+17 &= 81\end{aligned}$$
