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$$\begin{aligned} \boxed{1} \quad 250C2 &= 250! / (2! \times 250-2)! \\ &= (250 \times 249) / 2 \\ &= 31,125 \end{aligned}$$

$$\boxed{2} \quad \frac{5!}{3!2!} = 10$$

$$\boxed{3} \quad 1 \times 1 \times 8 = 8$$

$$\begin{aligned} \boxed{4} \quad 30P3 &= 30! / (30-3)! \\ &= 30 \times 29 \times 28 = 24,360 \end{aligned}$$

$$\boxed{5} \quad C(6, 3) = (6 \times 5 \times 4) / (3 \times 2 \times 1)$$

$$C(6, 3) = 20$$

$$\boxed{6} \quad 1 - 125 / 216 = 91 / 216$$

$$\boxed{7} \quad ((4C2) \times (2C1)) + 4C3 = 16$$

$$\boxed{18} \quad 32 \times 20C9$$

$$= 32 \times (20! / (9! \times 11!))$$

$$= 32 \times (20 \times 19 \times 18 \times 17 \times 16 \times 15 \times 14 \times 13 \times 12) / (9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1)$$

$$= 5,231,680$$

