

11. ${}_{24}P_2$ $\underline{24} \cdot \underline{23}$ 552 ways

12. ${}_{28}P_3$ 19656 ways

13. $\underline{10} \underline{9} \underline{8} \underline{7} \underline{26} \underline{25}$ 3,276,000

14. ${}_{15}C_4$ 1365 ways

15. $\underline{5} \underline{4} \underline{3} \underline{2} \underline{1}$ or $5!$ 120 ways

16. $\underline{7} \underline{6} \underline{5} \underline{4} \underline{3} \underline{2} \underline{1}$ or $7!$ 5040 ways

17. $\begin{matrix} 4R \\ 5W \end{matrix}$ $P(R \text{ or } R)$ $\frac{4}{9} \cdot \frac{3}{8}$ 6.6% or 1/7

18. $P(\text{likes school} \mid \text{male})$ $\frac{12}{19}$ 63%

19. $\begin{matrix} 6N \\ 8B \\ 4S \end{matrix}$ $\frac{6}{18} \cdot \frac{8}{17} \cdot \frac{4}{16}$ 1039 3.9%