

Errata

Counting

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- p. 27(↑5) Replace 7620480 by 30240.
p. 28(↓1) Replace 1814400 by 15120.
p. 83 Question 11.3: Replace $\frac{1}{n+k}$ by $\frac{1}{n+1}$.
p. 92 Question 12.2: Replace “a row” by “the n th row”.

Answers to Exercises

- p. 107
2.5(iii) $2^{n-1}(2+n)$
4.1(xi) $5!5!2$
4.2(iii) 728
4.2(iv) 280
4.2(v) 1319
p. 108
4.13(i) 324
4.13(ii) 72
6.4 $6! \binom{12}{4}$
7.10 $\binom{5}{2} \binom{8}{3}$
9.6 $\binom{13}{3} 10!$
p. 109
13.7 819
13.14(ii) $\binom{7}{3} \binom{6}{1} + \binom{7}{2} \binom{6}{2} + \binom{6}{1} \binom{6}{3}$
13.20(iii) $\binom{166}{2} + \binom{167}{1} \binom{167}{1}$
13.28 $n!$
p. 110
13.33(x) $\binom{12}{4} \binom{8}{1} + \binom{12}{1} \binom{11}{3} \binom{8}{1} + \binom{12}{2} \binom{8}{2} \binom{6}{1} + \binom{12}{1} \binom{11}{1} \binom{8}{3} + \binom{8}{4} \binom{4}{1}$
13.35(ii) $\frac{\binom{6}{2} \binom{4}{2}}{3!}$