Worksheet 8: Counting up to symmetry – answers

- 1. (a) $26^2 = 676$.
 - (b) $\frac{26^2}{2} = 338$.
- 2. (a) $2^5 = 32$;
 - (b) $3^5 = 243$;
 - (c) $7^5 = 16807$.
- 3. (a) 3;
 - (b) 6;
 - (c) 28.
- 4. (a) 13;
 - (b) 92;
 - (c) 10528.
- 5. (a) 6. $b^4 + b^3g + 2b^2g^2 + bg^3 + g^4$.
 - (b) $140. b^9 + 3b^8g + 10b^7g^2 + 22b^6g^3 + 34b^5g^4 + 34b^4g^5 + 22b^3g^6 + 10b^2g^7 + 3bg^8 + g^9$.
 - (c) $36. b^6 + 3b^5g + 9b^4g^2 + 10b^3g^3 + 9b^2g^4 + 3bg^5 + g^6$.