Solutions

2.1

- Analysed as randomised – counted in their assigned arm ✓.

2.2

- ARR = 10 %; NNT = 1/0.10 = 10 ✓.

2.3

- The trials disagree – pooling may be dishonest ✓.

3.1

- ARR = 20 % − 14 % = 6 %; NNT = 16.7 → 17 ✓.
- ITT: the 15 % stay in their randomised arm – dilution toward the null ✓.
- Per-protocol overstates: adherent patients differ prognostically ✓.
- Protecting features: concealed randomisation, blinding, ITT ✓.

3.2

- Individual squares wide (small trials); diamond 1.7 (1.4–2.1) excludes 1; I^2 = 30 % modest ✓.
- With I^2 = 80 %: investigate disagreement (populations, interventions, outcome definitions) before pooling ✓.
- NNT at ARR 8 % = 1/0.08 = 12.5 → 13; at baseline 5 % ARR 2 % → NNT 50 ✓.