1. True - a larger reduction factor means higher |output|/|input| ratio
2. False - in an equidepth histogram, if you have an entry with low frequency, then it's either going to get clumped together with a bunch of other low frequency entries or with 1 other high frequency entry.
3. ((A join B) join C) join D - left deep joins only
4. Sort-Merge Join, Clustered Index Traversal
5. 1, 5

For each two table join that is not a cross-product, we take the one with the minimum I/O cost.

1. 10

We extend the two-table plans from question 1 to three-table plans, and take the one with the minimum I/O cost.