Congratulations! You passed!

Grade received 100%
To pass 80% or higher

[**Go to next item**]

1. For optimal matching, what is optimized?   **1 / 1 point**

   ◯ distance is minimized one matched pair at a time

   ◯ total distance is maximized

   ⦿ total distance is minimized

   ✓ **Correct**

2. After matching, balance can be assessed by: **1 / 1 point**

   ◯ whether the causal effect estimate is significant

   ⦿ standardized differences

   ✓ **Correct**

3. A large standardized difference for a covariate suggests: **1 / 1 point**

   ◯ nothing, as standardized differences should not be used

   ⦿ there is imbalance on this covariate

   ◯ there is balance on this covariate

✓ **Correct**

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4. If there is a large treatment effect, then we expect the observed difference in mean of   **1 / 1 point**
the outcome between matched pairs to be:

⦿ very different from the difference in means if we randomly permute the
  treatment labels

◯ similar to the difference in means if we randomly permute the treatment labels

> ✓ **Correct**
> Yes. There is a treatment effect, so the labels are meaningful. If there was no
> treatment effect, randomly switching the labels shouldn't matter.