Stereochemistry Exercises

Name:	Date:
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For these exercises you may use molecular models and/or the 2-D images provided. After completing the question please indicate what method you used to solve it using the provided answers.

Both

1. Indicate whether the following molecule is "R" or "S":

For the previous question did you use:

Molecular model kit 2-D drawings

2. How many chiral centers does the following molecule have?

For the previous question did you use:

Molecular model kit 2-D drawings Both

3. How are the following molecules related?

For the previous question did you use:

Molecular model kit

2-D drawings

Both

4. Choose the enantiomer of the compound below:

For the previous question did you use:

Molecular model kit

2-D drawings

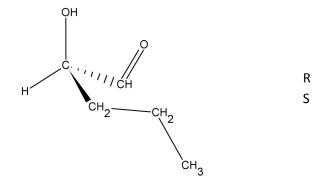
Both

5. How are the following compounds related?

For the previous question did you use:

Molecular model kit 2-D drawings Both

6. Indicate whether the following molecule is "R" or "S":



For the previous question did you use:

Molecular model kit 2-D drawings Both

7. Is the following compound meso?

For the previous question did you use:

- Molecular model kit
- 2-D drawings

Both

8. How are the following molecules related?

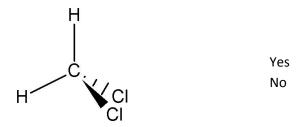
identical enantiomers diastereomers

For the previous question did you use:

- Molecular model kit
- 2-D drawings

Both

9. Does the following molecule have a plane of symmetry?

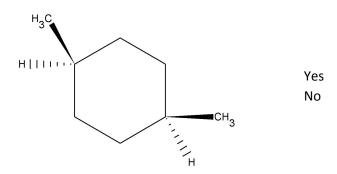


For the previous question did you use:

- Molecular model kit
- 2-D drawings

Both

10. Is the following molecule chiral?



For the previous question did you use:

- Molecular model kit
- 2-D drawings

Both