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Problem

Explanation

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Identifying well defined sets

QUESTION

One hundred riders from several countries participated in a bicycle race. Only eighty riders, including Jenny and Karen, finished the race. **Jenny finished 5th** and Karen was the winner. All the riders' countries of origin and finishing times were recorded on the race register. No two riders who finished had the same time and those who did not finish were recorded as DNF.

Based on this information, determine if each set is well-defined.

Set	Is the set well-defined?	
	Yes	No
The set of riders who finished the race after Jenny	☒	☐
The set of American riders who started but did not finish the race	☒	☐
The set of riders who finished the race	☒	☐
The set of riders who finished 10 minutes or more after the winner	☒	☐
The set of riders with the best looking bicycles	☐	☒

We know Jenny finished 5th; when everybody finished

We know the countries; who finished the race

We know who finished the race

We know all the times

We know nothing about the bikes

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