

**Answer on Question #51921-Physics-Field Theory**

No water vapor is added to or removed from a sample of air that is cooling, so the relative humidity of this sample of air will

remain the same.

be lower.

be higher.

the answer depends on the temperature.

**Solution**

Relative humidity is a measure of how much water vapor is in the air compared to how much could be there at that temperature. Cool air will hold less water vapor than warm air, so cooling the air with no other changes will increase the relative humidity.

**Answer: be higher.**

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