

36.11 The discharge air temperature from a fan coil unit is 53°F dry bulb and 51°F wet bulb. The space is maintained at 74°F and 45% relative humidity. What is the dew point in the space?

- A. 50°F
- B. 51°F
- C. 55°F
- D. 60°F

The discharge conditions are not required to answer the question. Use the [psychrometric chart](#) to locate the state point for the space conditions based on known temperature and relative humidity. Follow a horizontal line the the left to locate the Dew Point Temperature:

$$T_{DP} = 51.5^\circ F$$

Answer B