

Logic Puzzles

Answer: D, Davina wore the white dress

We can draw up the following table to indicate the colours of the dresses and heels worn by each friend to the ball.

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress					
Heels					

The simplest clue to add to the table is the fourth clue, so we can add it as follows:

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black				
Heels					

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Next, we can add the first clue. We are told that Blanche is wearing a blue dress so we can enter that into the table. We are also told that her heels are neither gold nor silver. We know it cannot be blue as she is wearing a blue dress. Therefore, the heels must be either white or black.

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black	Blue			
Heels		White or Black			



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We can similarly add the second clue. We are told that Emily is wearing black heels so we can enter that into the table. We are also told that her dress is neither white nor silver. We know it cannot be black as she is wearing black heels. Therefore, her dress must be either gold or blue.

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black	Blue			Gold or Blue
Heels		White Black			Black



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We can now figure out that Blanche is wearing white heels since Emily must be wearing the black heels. Similarly, Emily must be wearing the gold dress since Blanche is wearing the blue dress. We are left with the following table.

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black	Blue			Gold
Heels		White			Black

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For the final (third) clue, we know that Christy's dress and Davina's heels are the same colour. We can mark these boxes with an "X".

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black	Blue	X		Gold
Heels		White		X	Black

From the top row, we know that these boxes cannot be black, blue, or gold, which leaves white or silver. From the bottom row, we know that these boxes cannot be white or black, which only leaves silver.

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black	Blue	Silver		Gold
Heels		White		Silver	Black

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We can now fill out the rest of the table as the only dress left for Davina is the white dress. We can still not be sure whether Angela or Christy wore the blue or gold heels.

<u>Colours:</u> White, Black, Gold, Silver, Blue					
	Angela	Blanche	Christy	Davina	Emily
Dress	Black	Blue	Silver	White	Gold
Heels	Blue Or Gold	White	Blue Or Gold	Silver	Black

Therefore, the only correct answer is option D.