Problem of the Week #2 Mix 'N Match



An older sister bragged that she had 16 different outfits.

Her younger sibling said, "That's not true. You have 2 pairs of jeans, 4 shirts, and 2 pairs of shoes. There's no way that makes 16 different outfits. You only have 8 outfits."

Who is correct and why?

Show your work and justify your thinking.