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Ethnomathematics, Everyday Mathematics and Workplace Mathematics—Implications for teaching and learning mathematics

Sociocultural dimensions of mathematical knowledge have greatly influenced research in the field of mathematics education in the past few decades, resulting in the rise of different areas of research that include ethnomathematics, everyday mathematics, situated cognition, and workplace mathematics. This line of research has pointed out the importance of situations that evoke superior performance in quantitative reasoning in everyday settings. In this talk, I will draw upon ethnomathematical literature to discuss the connections between ethnomathematics, everyday mathematics and workplace mathematics. In particular, I will draw upon research conducted at bus conductors' workplace in Chennai, India and discuss the extent to which different goal-related activities and the dynamics of their workplaces contribute to their use of mental computation.