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## Detailed results



## Conclusions

Multiple numeric competencies (statistical numeracy, approximate numeracy, and subjective numeracy) predicted decision making beyond fluid intelligence and cognitive reflection.

- Statistical numeracy - the ability to understand and use probabilistic and mathematica concepts - was positively related to superior decisions in lottery task as well as with better vividness of decision outcomes in memory.
- Subjective numeracy - perceived numerical abilities and preference for numerical information - was negatively related to better decision making in real-life. People who assessed their numerical abilities as higher experienced more negative decision outcomes.
- Approximate numeracy - the intuitive ability to perceive and manipulate numerosities, and to map symbolic numbers to magnitudes - was the most robust predictor of decision and memory outcomes. People who were more precise in their estimates made superior decisions both in laboratory tasks and real-life situations.
Full paper (open access)


Multiple numeric competencies predict decision outcomes beyond fluid intelligence and cognitive reflection
https://www.sciencedirect.com/science/article/pii/S0160289620300301

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