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People who are bad with numbers often find it harder to make ends meet - even if they are not poor December 20, 2021 8.13am EST

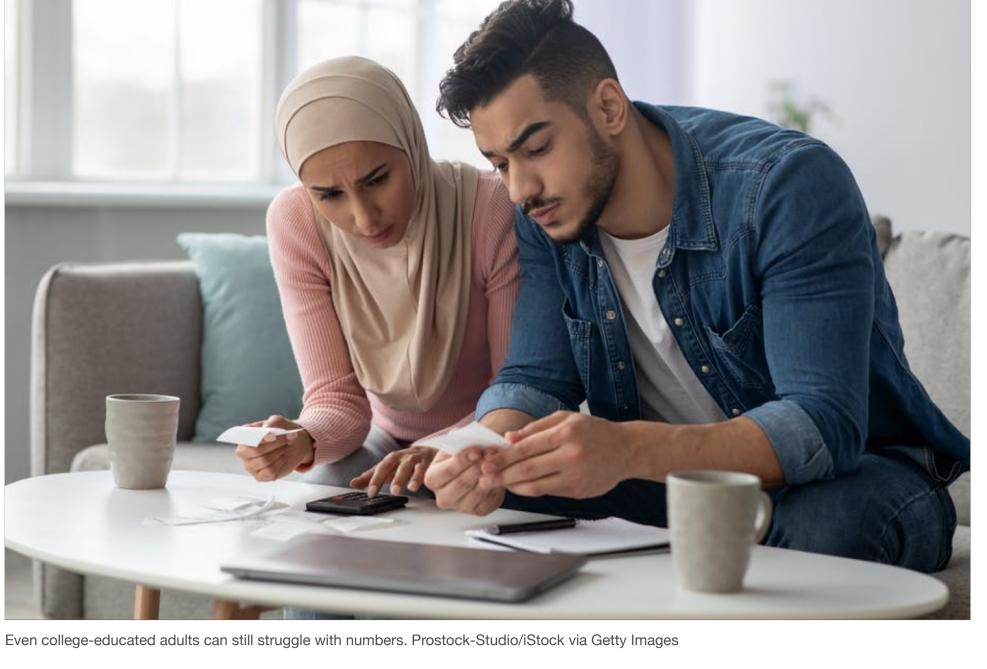
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Foundation World Risk Poll.

People who are bad with numbers are more likely to experience

The <u>Research Brief</u> is a short take about interesting academic work.

financial difficulties than people who are good with numbers. That's according to our analyses of the Lloyd's Register

In this World Risk Poll, people from 141 countries were asked if 10% was bigger than, smaller than or the same as 1 out of 10. Participants were said to be bad with numbers if they did not provide the correct answer – which is that 10% is the same as 1

out of 10. Our analyses found that people who answered

incorrectly are often among the poorest in their country. Prior studies in the <u>United States</u>, <u>United Kingdom</u>, the Netherlands and Peru had also found that people who are bad with numbers are financially worse off. But our analyses of the World Risk Poll further showed that people who are bad with numbers find it harder to make ends meet, even if they are not poor. When we say that they found it harder to make ends meet, we mean that they reported on the poll that they found it difficult or very difficult to live on their current income, as opposed to living comfortably or getting by on their current income.

Our analyses also indicate that staying in school longer is related to better number ability. People with a high school degree tend

to be better with numbers than people without a high school

degree. And college graduates do even better. But even among

Transparent, research-based, written by experts – and always

college graduates there are people who are bad with numbers -

40%

40

20

<u>jobs</u>.

44%

Ethiopia, Somalia and Rwanda.

free.

About us

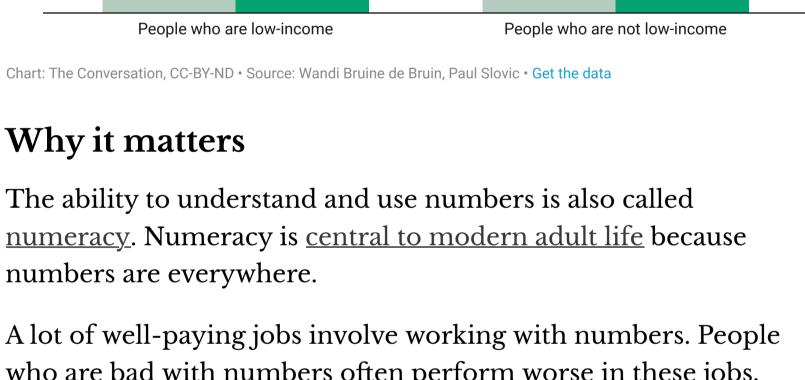
and they struggle more financially. Percentages of people in wealthy countries who struggle financially In high-income countries, low-numerate people report having more financial issues compared to people who are numerate. Low-numerate Numerate

37%



financially Regardless of math skills, people in poorer parts of the world still struggle financially. Low-numerate Numerate 80% 74% 73% 62% **59%** 60

Percentages of people in low-income countries who struggle



with poor numerical skills are also more likely to take on highcost debt. If you're bad with numbers, it is hard to recognize that paying the US\$30 minimum payment on a credit card with a \$3,000 balance and an annual percentage rate of 12% means it will never be paid off.

People who are bad with numbers are less likely to make good

financial decisions. Individuals who can't compute how interest

compounds over time save the least and borrow the most. People

What's next In her book "Innumeracy in the Wild," Ellen Peters, director of the Center for Science Communication Research at the University of Oregon, suggests that it is important for students to take math classes. American high school students who had to

take more math courses than were previously required had

Successfully teaching numeracy also means helping students

gain confidence in using numbers. People with low numerical

foreclosure notice, independent of their numeric ability. This is because they may not even try to take on complex financial decisions. Numerical confidence can be boosted in different ways. Among American elementary school children who were bad with numbers, setting achievable goals led to better numerical confidence and performance. Among American <u>undergraduate</u>

[Over 140,000 readers rely on The Conversation's newsletters to understand the world. Sign up today.] Other important next steps are to find out whether training in numeracy can also be provided to adults, and whether training in

students, a writing exercise that affirmed their positive values

improved their numerical confidence and performance.

New research financial wellbeing Higher ed attainment Innumeracy Percentages **Research Brief**

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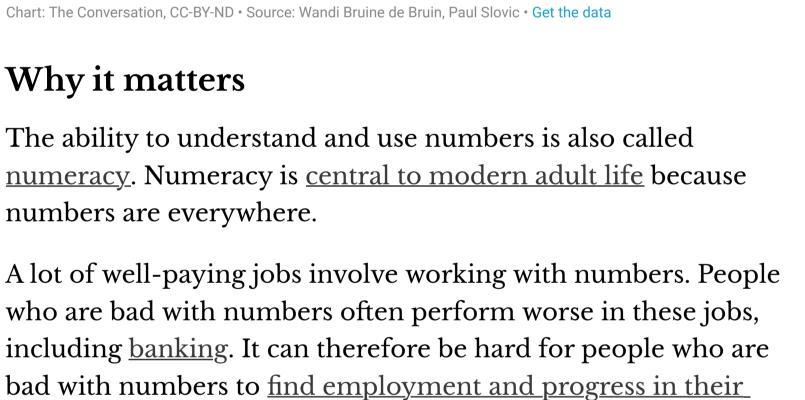
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It is clear that people who are bad with numbers also tend to struggle financially. But we still need to explore whether teaching people math will help them to avoid financial problems.

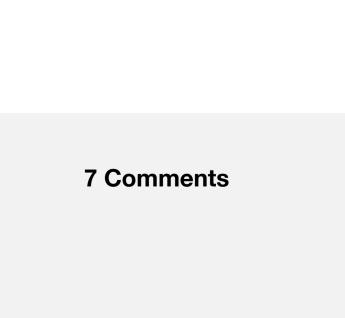
better financial outcomes later in life, such as avoiding bankruptcy and foreclosures.

What still isn't known

confidence experience bad financial outcomes, such as a

numeracy improves the financial outcomes of people who do not live in high-income countries. **Mathematics Higher education Numeracy** K-12 education **Disparities Quick reads**

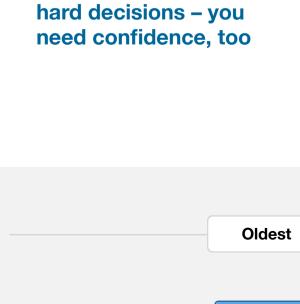
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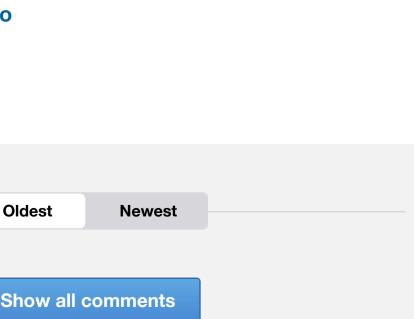
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Math skills aren't

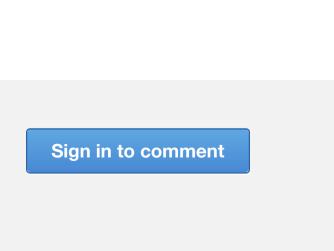
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than rich ones?



keep two metres

6666666666

distancing: two metres

Do the math when

is not the same as

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