Financial Literacy & Planning: Implications for Retirement Wellbeing

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- Workers are increasingly responsible for saving & investing retirement assets.
 - What influences these decisions?
 Are they well-equipped to make the decisions?
 What happens when they do a poor job?

Life-cycle model of retirement saving:

Posits that consumers:

- Save and work given anticipated intertemporal budget constraints.
- Look ahead & plan for the future.
- Understand basic economics (e.g. interest rates, inflation, risk).

To evaluate the workings of such models:

We devised a module on *Financial Literacy & Planning* for the 2004 Health and Retirement Study (HRS)

Financial Literacy:

- Do people understand the basic working of interest rates, inflation, and risk diversification?

> Planning

- Do people calculate how much to save for retirement? How well do they plan?

3 questions on Financial Literacy: (I)

Compound Interest

- "Suppose you had \$100 in a savings account and the interest rate was 2% per year. After 5 years, how much do you think you would have in the account if you left the money to grow?"
 - i) more than \$102;
 ii) exactly \$102;
 iii) less than \$102;
 iv) don't know (DK);
 v) refuse to answer.

Financial Literacy (II)

Inflation

- "Imagine that the interest rate on your savings account was 1% per year and inflation was 2% per year. After 1 year, would you be able to buy:"
 - i) more than today with the money in this account;
 - ii) exactly the same as;
 - iii) less than today
 - iv) DK;
 - v) refuse.

Financial Literacy (III)

Stock Risk

"Do you think the following statement is true or false? Buying a single company stock usually provides a safer return than a stock mutual fund."

- i) True;
- ii) False;
- iii) DK;
- iv) Refuse.

Financial Literacy Results

Panel A: Distribution of Responses to Financial Literacy Questions

	Responses				
	Correct	Incorrect	DK	Refuse	
Compound Interest	67.1%	22.2%	9.4%	1.3%	
Inflation	75.2%	13.4%	9.9%	1.5%	
Stock Risk	52.3%	13.2%	33.7%	0.9%	
				See Table 1	

NB: only 34% correctly answer all 3 questions; & only 56% correctly answer Inflation & Compound Interest.

3 questions on Retirement Planning

Trying to plan

"Have you ever tried to figure out how much your household would need to save for retirement?"

Developing a plan

"Have you developed a plan for retirement saving?"

Sticking to the plan

"How often have you been able to stick to this plan? Would you say:"

i) always; ii) mostly; iii) rarely; or iv) never?

What we find:

<u>Tried</u>

Have you ever tried to figure out how much your household would need to save for retirement?

Yes (31.1%) No (67.8%)

Developed a plan

Have you developed a plan for retirement saving?

Yes (58.4%)	More or Less (9.0%)	No (32.0%)
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Stuck to the plan

How often have you been able to stick to the plan?

Mostly (50.0%)

Prevalence of retirement planners

Question	Proportion of Sample
Simple Planners Yes to "tried to figure out how much to save for retirement"	31.3%
Serious Planners Replied Yes/More or less to "developed a plan"	21.1%
Successful Planners Replied Always/Mostly to "able to stick to the plan"	18.5%

See Table 2 Panel B

Which tools do people use for planning?

Tools	Simple Planners n = 397	Successful Planners n = 235	
Talk to family/friends	21.1%	17.4%	_
Talk to coworkers/friends	(.409)	(.380) 21.3%	
	(.432)	(.410)	
Attend retirement seminar	35.3% (.479)	40.4% (.492)	
Use calculator/worksheet	37.8%	43.4%	
Commit financial aleman	(.485)	(.497)	
Consult financial planner	39.0% (.488)	49.4% (.501)	See Table

NB: ¹/₄ of planners have not used any of these tools.

The effects of financial literacy

Are the more financially literate

- more likely to plan?
- more likely to succeed in planning?

Financial literacy & retirement planning (I)

Compound Interest	<i>Overall</i> n = 1269	Simple Planners n = 397	Serious Planners n = 268	Successful Planners n = 235
• Correct	67.1%	75.3%	78.0%	78.7%
• Incorrect	22.2%	21.7%	20.5%	20.0%
• DK	9.4%	2.5%	1.5%	1.3%

Financial literacy & retirement planning (II)

Inflation	O verall	Simple Planners	Serious Planners	Successful Planners	
• Correct	75.2%	84.4%	85.8%	86.8%	
• Incorrect	13.4%	11.3%	11.2%	10.2%	
• DK	9.9%	3.8%	3.0%	3.0%	

Financial literacy & retirement planning (III)

Stock Risk	Overall	Simple Planners	Serious Planners	Successful Planners
• Correct	52.2%	67.5%	73.1%	73.6%
• Incorrect	13.2%	11.6%	11.2%	11.1%
• DK	33.6%	19.9%	15.3%	14.9%

Probit Analysis of Simple, Serious, and Successful Planners

	<i>Simple Planners</i> n = 1269		<i>Serious Planners</i> n = 1269		<i>Successful Planners</i> n = 1269	
	Ι	II	Ι	II	Ι	II
Correct on Compound Interest	.068**	.032	.064**	.037	.061**	.037
Correct on Inflation	.104***	.079**	.073***	.057*	.072***	.062**
Correct on Stock Risk	.165***	.109***	.155***	.101***	.137***	.088***
DK Compound Interest		171**		138**		130**
DK Inflation		.025		.036		.057
DK Stock Risk		071*		070*		064*
Pseudo R ²	.048	.056	.060	.069	.060	.069

Summary of findings

- Only 1/3 of respondents have basic knowledge of key economic variables: interest rates, inflation, and risk diversification.
- Fewer than 1/3 have attempted to calculate how much they need to save for retirement. Even fewer (19%) follow through.
- People use a variety of tools to plan for retirement, including informal means such as talking to family and friends.
- Financial literacy is strongly correlated with planning. Those most financially knowledgeable are more likely to plan and be successful planners.

These questions in other surveys

We have inserted these (and many more) questions on financial literacy and planning in the Dutch CentERdata and we will soon be able to do international comparisons.

We are planning to insert these (and more) questions in the Rand Internet Panel that surveys younger respondents than the HRS.

Other related work

- Many (even those > 50 and the highly educated) do not plan for retirement. Most importantly, planners accumulate more wealth and are more likely to invest in stocks.
 - Lusardi (1999, 2002, 2003); and Ameriks, Caplin, and Leahy (2003)
- Most workers have not attempted to calculate how much to save for retirement. Many of those who tried could not state results.
 - Retirement Confidence Surveys (1990-2005)
- Workers have little knowledge of their Social Security and pensions.
 - Bernheim (1995, 1998), Gustman and Steinmeier (2004), Mitchell (1988).

Implications:

Financial knowledge among workers cannot be taken for granted.

Workers need help to make sound saving and portfolio choice decisions.

A "one-time/one-size-fits-all" retirement seminar is likely to be ineffective in stimulating saving and retirement financial security. **Qualifications and questions:**

Is financial knowledge necessary to make saving decisions?

How much should people know?

How much are saving and portfolio choice influenced by financial literacy?