

## Codebook Experiment 2

Variable name	Meaning	Labels
lfdn	participant id (set by system)	13 = first participant . . . 98 = last participant
duration	time to complete experiment in seconds	
group	<b>group 1 saw calculation set 1:</b> <b>unknown-false</b> 916 x 358 = 383018 753 x 537 = 471521 293 x 195 = 53165 469 x 863 = 420367 325 x 435 = 104935 782 x 196 = 119252 671 x 359 = 269139 489 x 918 = 420944 <b>unknown-true</b> 523 x 148 = 77404 467 x 123 = 57441 461 x 621 = 286281 436 x 249 = 108564 749 x 245 = 183505 941 x 768 = 722688 942 x 946 = 891132 596 x 394 = 234824 <b>known-false</b> 1 x 8 = 2 1 x 6 = 8 1 x 4 = 12 1 x 2 = 8 2 x 6 = 4 2 x 4 = 6 2 x 2 = 9 3 x 3 = 4 <b>known-true</b> 1 x 9 = 9 1 x 7 = 7 1 x 5 = 5 1 x 3 = 3 1 x 1 = 1 2 x 5 = 10 2 x 3 = 6 3 x 4 = 12  <b>group 2 saw calculation set 2:</b> <b>unknown-false</b> 523 x 148 = 77024 467 x 123 = 56401 461 x 621 = 275491 436 x 249 = 130284	1 = group 1  2 = group 2

## Codebook Experiment 2

	<p> <math>749 \times 245 = 102465</math>  <math>941 \times 768 = 723468</math>  <math>942 \times 946 = 857242</math>  <math>596 \times 394 = 202614</math>  <b>unknown-true</b>  <math>916 \times 358 = 327928</math>  <math>753 \times 537 = 404361</math>  <math>293 \times 195 = 57135</math>  <math>469 \times 863 = 404747</math>  <math>325 \times 435 = 141375</math>  <math>782 \times 196 = 153272</math>  <math>671 \times 359 = 240889</math>  <math>498 \times 918 = 457164</math>  <b>known-false</b>  <math>1 \times 9 = 1</math>  <math>1 \times 7 = 3</math>  <math>1 \times 5 = 12</math>  <math>1 \times 3 = 7</math>  <math>1 \times 1 = 9</math>  <math>2 \times 5 = 6</math>  <math>2 \times 3 = 10</math>  <math>3 \times 4 = 5</math>  <b>known-true</b>  <math>1 \times 8 = 8</math>  <math>1 \times 6 = 6</math>  <math>1 \times 4 = 4</math>  <math>1 \times 2 = 2</math>  <math>2 \times 6 = 12</math>  <math>2 \times 4 = 8</math>  <math>2 \times 2 = 4</math>  <math>3 \times 3 = 9</math> </p>	
Farbe1-8	<p>eight contrast levels → randomly assigned to eight variables (Farbe1-8) per participant</p>	<p>             style="color: #D2D2D2              font-size: 130%"              = RGB 210-210-210               style="color: #B4B4B4              font-size: 130%"              = RGB 180-180-180               style="color: #969696              font-size: 130%"              = RGB 150-150-150               style="color: #787878              font-size: 130%"              = RGB 120-120-120               style="color: #5A5A5A              font-size: 130%"              = RGB 90-90-90           </p>

## Codebook Experiment 2

		<p>style="color: #3C3C3C font-size: 130%" = RGB 60-60-60</p> <p>style="color: #1E1E1E font-size: 130%" = RGB 30-30-30</p> <p>style="color: #000000 font-size: 130%" = RGB 0-0-0</p>
Farbe1_practice- Farbe4_practice	four contrast levels for practice trials → randomly assigned to four variables (Farbe1_practice-4_practice) per participant	<p>style="color: #D2D2D2 font-size: 130%" = RGB 210-210-210</p> <p>style="color: #787878 font-size: 130%" = RGB 120-120-120</p> <p>style="color: #5A5A5A font-size: 130%" = RGB 90-90-90</p> <p>style="color: #000000 font-size: 130%" = RGB 0-0-0</p>
gr1_f_unknown1-8	group 1, eight unknown-false calculations → randomly assigned to eight variables (gr1_f_unknown1-8) per participant	<p>916 x 358 = 383018 753 x 537 = 471521 293 x 195 = 53165 469 x 863 = 420367 325 x 435 = 104935 782 x 196 = 119252 671 x 359 = 269139 489 x 918 = 420944</p>
gr1_t_unknown1-8	group 1, eight unknown-true calculations → randomly assigned to eight variables (gr1_t_unknown1-8) per participant	<p>523 x 148 = 77404 467 x 123 = 57441 461 x 621 = 286281 436 x 249 = 108564 749 x 245 = 183505 941 x 768 = 722688 942 x 946 = 891132 596 x 394 = 234824</p>
gr1_f_known1-8	group 1, eight known-false calculations → randomly assigned to eight variables	<p>1 x 8 = 2 1 x 6 = 8</p>

## Codebook Experiment 2

	(gr1_f_known1-8) per participant	$1 \times 4 = 12$ $1 \times 2 = 8$ $2 \times 6 = 4$ $2 \times 4 = 6$ $2 \times 2 = 9$ $3 \times 3 = 4$
gr1_t_known1-8	group 1, eight known-true calculations → randomly assigned to eight variables (gr1_t_known1-8) per participant	$1 \times 9 = 9$ $1 \times 7 = 7$ $1 \times 5 = 5$ $1 \times 3 = 3$ $1 \times 1 = 1$ $2 \times 5 = 10$ $2 \times 3 = 6$ $3 \times 4 = 12$
gr2_f_unknown1-8	group 2, eight unknown-false calculations → randomly assigned to eight variables (gr2_f_unknown1-8) per participant	$523 \times 148 = 77024$ $467 \times 123 = 56401$ $461 \times 621 = 275491$ $436 \times 249 = 130284$ $749 \times 245 = 102465$ $941 \times 768 = 723468$ $942 \times 946 = 857242$ $596 \times 394 = 202614$
gr2_t_unknown1-8	group 2, eight unknown-true calculations → randomly assigned to eight variables (gr2_t_unknown1-8) per participant	$916 \times 358 = 327928$ $753 \times 537 = 404361$ $293 \times 195 = 57135$ $469 \times 863 = 404747$ $325 \times 435 = 141375$ $782 \times 196 = 153272$ $671 \times 359 = 240889$ $498 \times 918 = 457164$
gr2_f_known1-8	group 2, eight known-false calculations → randomly assigned to eight variables (gr2_f_known1-8) per participant	$1 \times 9 = 1$ $1 \times 7 = 3$ $1 \times 5 = 12$ $1 \times 3 = 7$ $1 \times 1 = 9$ $2 \times 5 = 6$ $2 \times 3 = 10$ $3 \times 4 = 5$
gr2_t_known1-8	group 2, eight known-true calculations → randomly assigned to eight variables (gr2_t_known1-8) per participant	$1 \times 8 = 8$ $1 \times 6 = 6$ $1 \times 4 = 4$

## Codebook Experiment 2

		$1 \times 2 = 2$ $2 \times 6 = 12$ $2 \times 4 = 8$ $2 \times 2 = 4$ $3 \times 3 = 9$
consent	agreement to consent form	1 = yes 2 = no (this will end the study)
instructions	instructions	1 = I have read these instructions
gender	gender	1 = female 2 = male 3 = I can't/don't want to classify myself
age	age	textbox
English	How good is your English?	1 = mother tongue 2 = fluent 3 = elementary
education	highest level of education	1 = early childhood (e.g. kindergarten) 2 = primary education (e.g. primary school) 3 = secondary education (e.g. high school) 4 = higher education (e.g. university) 5 = others
education_others	others:	textbox
seriousness	Did you participate seriously in this study?	1 = no 2 = yes
calculator	Did you use a calculator to verify any of the results of the calculations?	1 = no 2 = yes
calc_open1	number of verifications with calculator for calculations with one digit numbers	textbox
calc_open3	number of verifications with calculator for calculations with three digit numbers	textbox
calc_false	number of verified calculations for which the printed result was false	textbox
data_use	reason not to use data?	1 = No 2 = Yes, because:

## Codebook Experiment 2

data_use_reason	Yes, because:	textbox
practice_trial_1-4	<p>practice trials</p> <p>Slider: How difficult or easy is it to read the calculation above?</p> <p>practice_trial_1: <math>812 \times 152 = 132694</math> → in Farbe1_practice</p> <p>practice_trial_2: <math>4 \times 5 = 7</math> → in Farbe2_practice</p> <p>practice_trial_3: <math>312 \times 298 = 92976</math> → in Farbe3_practice</p> <p>practice_trial_4: <math>4 \times 4 = 16</math> → in Farbe4_practice</p>	<p>1 = very difficult</p> <p>.</p> <p>.</p> <p>.</p> <p>50 = very easy</p>
calcs_gr1_1-32	<p>main trials group 1</p> <p>Slider: How difficult or easy is it to read the calculation above?</p> <p>calcs_gr1_1 gr1_f_unknown1 in Farbe1</p> <p>calcs_gr1_2 gr1_f_unknown2 in Farbe2</p> <p>calcs_gr1_3 gr1_f_unknown3 in Farbe3</p> <p>calcs_gr1_4 gr1_f_unknown4 in Farbe4</p> <p>calcs_gr1_5 gr1_f_unknown5 in Farbe5</p> <p>calcs_gr1_6 gr1_f_unknown6 in Farbe6</p> <p>calcs_gr1_7 gr1_f_unknown7 in Farbe7</p> <p>calcs_gr1_8 gr1_f_unknown8 in Farbe8</p> <p>calcs_gr1_9 gr1_t_unknown1 in Farbe1</p> <p>calcs_gr1_10 gr1_t_unknown2 in Farbe2</p> <p>calcs_gr1_11 gr1_t_unknown3 in Farbe3</p> <p>calcs_gr1_12 gr1_t_unknown4 in Farbe4</p> <p>calcs_gr1_13 gr1_t_unknown5 in Farbe5</p> <p>calcs_gr1_14 gr1_t_unknown6 in Farbe6</p> <p>calcs_gr1_15 gr1_t_unknown7 in Farbe7</p> <p>calcs_gr1_16 gr1_t_unknown8 in Farbe8</p> <p>calcs_gr1_17 gr1_f_known1 in Farbe1</p> <p>calcs_gr1_18 gr1_f_known2 in Farbe2</p> <p>calcs_gr1_19 gr1_f_known3 in Farbe3</p> <p>calcs_gr1_20 gr1_f_known4 in Farbe4</p> <p>calcs_gr1_21 gr1_f_known5 in Farbe5</p> <p>calcs_gr1_22 gr1_f_known6 in Farbe6</p> <p>calcs_gr1_23 gr1_f_known7 in Farbe7</p> <p>calcs_gr1_24 gr1_f_known8 in Farbe8</p> <p>calcs_gr1_25 gr1_t_known1 in Farbe1</p> <p>calcs_gr1_26 gr1_t_known2 in Farbe2</p> <p>calcs_gr1_27 gr1_t_known3 in Farbe3</p>	<p>1 = very difficult</p> <p>.</p> <p>.</p> <p>.</p> <p>50 = very easy</p>

## Codebook Experiment 2

	calcs_gr1_28 gr1_t_known4 in Farbe4 calcs_gr1_29 gr1_t_known5 in Farbe5 calcs_gr1_30 gr1_t_known6 in Farbe6 calcs_gr1_31 gr1_t_known7 in Farbe7 calcs_gr1_32 gr1_t_known8 in Farbe8  filter: group = 1	
calcs_gr2_1-32	main trials group 2  Slider: How difficult or easy is it to read the calculation above?  calcs_gr2_1 gr2_f_unknown1 in Farbe1 calcs_gr2_2 gr2_f_unknown2 in Farbe2 calcs_gr2_3 gr2_f_unknown3 in Farbe3 calcs_gr2_4 gr2_f_unknown4 in Farbe4 calcs_gr2_5 gr2_f_unknown5 in Farbe5 calcs_gr2_6 gr2_f_unknown6 in Farbe6 calcs_gr2_7 gr2_f_unknown7 in Farbe7 calcs_gr2_8 gr2_f_unknown8 in Farbe8 calcs_gr2_9 gr2_t_unknown1 in Farbe1 calcs_gr2_10 gr2_t_unknown2 in Farbe2 calcs_gr2_11 gr2_t_unknown3 in Farbe3 calcs_gr2_12 gr2_t_unknown4 in Farbe4 calcs_gr2_13 gr2_t_unknown5 in Farbe5 calcs_gr2_14 gr2_t_unknown6 in Farbe6 calcs_gr2_15 gr2_t_unknown7 in Farbe7 calcs_gr2_16 gr2_t_unknown8 in Farbe8 calcs_gr2_17 gr2_f_known1 in Farbe1 calcs_gr2_18 gr2_f_known2 in Farbe2 calcs_gr2_19 gr2_f_known3 in Farbe3 calcs_gr2_20 gr2_f_known4 in Farbe4 calcs_gr2_21 gr2_f_known5 in Farbe5 calcs_gr2_22 gr2_f_known6 in Farbe6 calcs_gr2_23 gr2_f_known7 in Farbe7 calcs_gr2_24 gr2_f_known8 in Farbe8 calcs_gr2_25 gr2_t_known1 in Farbe1 calcs_gr2_26 gr2_t_known2 in Farbe2 calcs_gr2_27 gr2_t_known3 in Farbe3 calcs_gr2_28 gr2_t_known4 in Farbe4 calcs_gr2_29 gr2_t_known5 in Farbe5 calcs_gr2_30 gr2_t_known6 in Farbe6 calcs_gr2_31 gr2_t_known7 in Farbe7 calcs_gr2_32 gr2_t_known8 in Farbe8  filter: group = 2	1 = very difficult . . . 50 = very easy
page_history	presentation order of experiment pages	

## Codebook Experiment 2

session_id	session id (set by system)	
ats	absolute timestamp	
datetime	date and time (of survey start); GMT	
date_of_last_access	date of last access; GMT	
rtsXX	seconds passed until submitting the respective survey page XX = page id	