\leftarrow	Practice quiz on Probability Concepts Übungsquiz • 25 min		
	✓ Herzlichen Glückwunsch! Sie haben bestanden! zum Bestehen 75 % oder höher Lernen Sie weiter	BEWERTUNG 100 %	
	Practice quiz on Probability Concepts		
	GESAMTPUNKTZAHL 9 1. If $x=$ "It is raining," what is $\sim (\sim x)$?	1 / 1 Punkten	
	○ "It is not raining"	17 Trunkten	
\leftarrow	Practice quiz on Probability Concepts Übungsquiz • 25 min		
	○ "It is never raining"		
	Richtig The second negation cancels out the first one.		ı
	Similarly $\sim (\sim (\sim x)) = \sim x$		
	2. If the statement "I am 25 years old" is assigned probability 0, what probability is assigned to the statement	1 / 1 Punkten	
	"I am not 25 years old"? ① 1		
	\bigcirc -1		
(Practice quiz on Probability Concepts Übungsquiz • 25 min		
	\checkmark Richtig It is always the case that $p(x)+p(\sim x)=1.$		
	3. If I assign to the statement x = "it will rain today" a probability of $p(x)=0.35$, what probability must I	1 / 1 Punkten	
	assign to the statement "it will not rain today?" ○ .5		
	.65		
	○ .35 ○ 0		
	Practice quiz on Probability Concepts		
	Ubungsquiz • 25 min		
	4. Is the following collection of statements a probability distribution?	1 / 1 Punkten	
	I own a Toyota pickup truck I do not own a Toyota pickup truck		
	3. I own a non-Toyota pickup truck		
	4. I do not own a non-Toyota pickup truck		
	No		
	○ Yes		
\leftarrow	Practice quiz on Probability Concepts Übungsquiz • 25 min could both be true, and even (1) and (3) could both be true (if I owned more than one pickup		
	truck).		
	5. I don't know what it means to be "ingenuous." What probability would I assign to the statement, "I am ingenuous OR I am not ingenuous"?	1 / 1 Punkten	
	1		
	O -1		
	○ .5○ 0		
	✓ Richtig		
\leftarrow	Practice quiz on Probability Concepts Übungsquiz • 25 min		
	6. A friend of mine circumscribes a circle inside a square, so that the diameter of the circle and the edge of the square are the same length. He asks me to close my eyes and pick a point at random inside the	1 / 1 Punkten	
	square. He says the probability that my point will also be inside the circle is $\frac{\pi}{4}$ Is this correct?		
	Yes		
	○ No		
	✓ Richtig Probabilities can be any real number between 0 and 1. They do not need to be rational numbers		
	– a numerator that is a transcendental number like Pi is acceptable.		
\leftarrow	Practice quiz on Probability Concepts Ubungsquiz • 25 min probability of landing in a circle of area Pi*r^2 when it is known that one is in the area of the		
	square is equal to the ratio of the area of the circle to the area of the square in which it is circumscribed, or Pi*r^2/4*r^2, which equals Pi/4.		
	7. The probability of drawing a straight flush (including a Royal Flush) in a five-card poker hand is	1 / 1 Punkten	
	0.0000153908		
	What is the probability of not drawing a straight flush? ○ .9999745688		
	○ .9967253809○ .9996582672		
0.226	 ● .9999846092 		
<u></u>	Practice quiz on Probability Concepts $\frac{p(\sim x) = 1 - p(x)}{p(\sim x)}$		
	8. What is the probability that a fair six sided die will some up with a prime pumber? (Decall that prime	4/4 Punisan	
	8. What is the probability that a fair, six-sided die will come up with a prime number? (Recall that prime numbers are positive integers other than 1 that are divisible only by themselves and 1) Negin {align} \frac{1}{2}\end {align}	1 / 1 Punkten	
\leftarrow	Practice quiz on Probability Concepts Übungsquiz • 25 min		
81	Obungsquiz • 25 min O \begin {align} \frac{1}{6}\end {align}		
	✓ Richtig The faces with 2.3 and 5 satisfy the condition – which makes 3 relevant outcomes out of the		
	The faces with 2, 3 and 5 satisfy the condition – which makes 3 relevant outcomes out of the "universe" of 6 outcomes = \begin \{align}\\frac\{3}\{6} = \frac\{1}\{2}\\end \{align}\		
	$^{9.}$ The joint probability p (the die will come up 5 , the next card will be a heart) Is equal to the joint probability	1 / 1 Punkten	
	p (the next card will be a heart, the die will come up 5) p (the next card will be a heart, the die will not come up 5)		
	$\bigcirc p$ (the die will not come up 5, the next card will not be a heart)		
	$\bigcirc p$ (the next card will not come up 5 , the next card will be a heart)		