

Gladed Quiz • 15 IIIIII				
	Congratulation Grade	ons! You passed!	To pass 80% or	Go to next item
	received 100%	Grade 100%	higher	
	What is the variance of the state of th	ne following dataset?		1/1 point
	$\mathcal{D} = \{1, 2, 3, 2\}$ Please use decimal num 0.5	Please use decimal numbers in your answer.		
	Correct Well done! 2. What is the standard dev	viation of the dataset $\mathcal{D}=\{1,2,3\}$	$,2\}$ which we already used in the pre	vious question? 1/1 point
	You should provide a de-	imal number as your answer.	, -,ar ar arrang ascom the pre	-, - point
	Ocrrect Indeed: You just no	eeded to take the square-root of the	variance.	
		What would be the new variance if we added 1 to each element in the dataset $\mathcal{D}=\{1,2,3,2\}$ from Question 1? Please use decimal numbers in your answer. 0.5		
		tant to the dataset does not change		
	 4. What would be the new variance if we multiplied each sample in a dataset \$\mathcal{D}\$ by 2. \(\times \) The variance of the new dataset will be two times the variance of \$\mathcal{D}\$. \(\times \) The variance of the new dataset will not change. \(\times \) The variance of the new dataset will be four times the variance of \$\mathcal{D}\$. 			1/1point
	✓ Correct Well done!			
	the variance σ_n^2 if we ad \bar{x}_n)? $ \bullet \sigma_n^2 = \frac{n-1}{n}\sigma_{n-1}^2 + $ $ \bullet \sigma_n^2 = \frac{n-2}{n-1}\sigma_{n-1}^2 + $	d a new element x_* to the dataset ($\frac{1}{n}(x_*-\bar{x}_{n-1})(x_*-\bar{x}_n)$ $\frac{1}{n}(x_*-\bar{x}_{n-1})(x_*-\bar{x}_n)$ $\frac{1}{n-1}(x_*-\bar{x}_{n-1})(x_*-\bar{x}_n)$	dataset \mathcal{D}_{n-1} with $n-1$ samples. $\mathfrak V$ assuming you have computed the new	Vhat would be 1/1 point w sample mean