What proportion of the data is within one standard deviation?

sampled stock mutual table below to comple	funds. Use the information in the te parts (a) through (d). Then	The mean of the data set for bond mutual funds is 2.475.
complete part (e).		places as needed.)
Bond mutual funds	Stock mutual 🖻	The standard deviation of the data set for bond mutual
33 19	95 77	funds is 0.009.
2.0 3.5	9.2 7.5	(1ype an integer or decimal rounded to three decimal places as needed.)
2.5 2.8 1.7 2.1	8.5 7.3 8.2 7.0	The mean of the data set for stock mutual funds is
		(Type an integer or decimal rounded to three decimal places as needed.)
		The standard deviation of the data set for stock mutual funds is 0.903.
		(Type an integer or decimal rounded to three decimal

Given that (in this example) the mean of the mutual funds is 2.475 and the standard deviation is 0.669, what proportion of the bond mutual funds are within one standard deviation of the mean?

What numbers *would be* within one standard deviation of the mean?

2.475 + 0.669=3.144 (one st. dev. above)

2.475 - 0.669=1.806 (one st. dev. below)

Look at the bond mutual funds. How many of them are actually between these two numbers we found (between 1.806 and 3.144) ?

Bond mutual funds		
3.3	1.9	
2.0	3.5	
2.5	2.8	
1.7	2.1	

2.0, 2.5, 1.9, 2.8, 2.1 are all between. This is 5 of the numbers out of 8 total. 5 divided by 8 is 0.625 which is 62.5% So, 62.5% of the data is within one standard deviation. You are finding the ACTUAL percentage of mutual funds that are within one standard deviation. The empirical rule states that if these are normally distributed, 68% would fall within one standard deviation. But this question asked for the actual percentage given the data, so we had 5 numbers out of 8 total numbers, which is 62.5%.