Assume you are planning to invest 75% of your funds in Sony (SNE) and 25% of your funds in Coca-Cola (KO). Use the following returns to set up the calculations needed to determine

- a. the covariance between Sony and Coca-Cola
- b. the correlation between Sony and Coca-Cola

Year	Return on:	
	<b>SNE</b>	<u>KO</u>
2012	-18%	13%
2011	-47%	11%
2010	3%	20%
2009	73%	31%

Wall Street Journal Questions are on the back of this page.

a. 
$$R_{SUE} = \frac{1}{4} \left( -18 - 47 + 3 + 73 \right) = 5$$
 $R_{KO} = \frac{1}{4} \left( 13 + 11 + 20 + 71 \right) = K$ 
 $R_{KO} = \frac{1}{4} \left( 13 + 11 + 20 + 71 \right) = K$ 
 $R_{KO} = \frac{1}{4} \left( (-18 - 5)(13 - k) + (-47 - 5)(11 - k) + (3 - 5)(20 - k) \right) + (73 - 5)(31 - k)$ 
 $R_{KO} = \frac{1}{3} \left( (-18 - 5)^2 + (-47 - 5)^2 + (3 - 5)^2 + (73 - 85)^2 \right)$ 
 $R_{KO} = \frac{1}{3} \left( (-18 - 5)^2 + (-47 - 5)^2 + (3 - 5)^2 + (73 - 85)^2 \right)$ 
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