

Quiz: Error in Measurement

A part of a washing machine is to have a width of 2.4 inches and length of 5 inches \pm 0.3 inch.		
1	What is the upper limit of the range of tolerance for length?	
2	What is the lower limit of the range of tolerance for width?	
3	Find the relative error in the length of that part of machine?	
4	Find the absolute error in area of that part of machine?	
5	Find the percent of error in area of that part of machine?	
A cylindrical bottle containing juice is 15 cm long and 3 cm wide to the nearest cm.		
6	What may be the possible range for the actual length?	
7	What is the relative error in the volume of the bottle?	
8	What is the absolute error in the volume of the clock?	
9	What is the maximum possible value of the volume of the bottle to the <i>nearest ten</i> ?	
10	What is the percent of error in the volume of the bottle?	

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%