Quiz 2	February	20, 2019	

	Name and section:				
1.	(5 points) There are 5 marbles in a bag: 4 are blue, and 1 is red. What is the probability that a blue marble gets picked?				
	Write your answer here.				
2.	(5 points) Find the regression equations for predicting final score from midterm score, based on the following information: average midterm score $= 70$ , SD of midterm score $= 10$ average final score $= 55$ , SD of final score $= 20$ , $r = 0.6$				
	Hint: in the formula $\hat{y} = mx + b$ , the dependent variable is y and independent variable is x. The dependent variable is predicted from independent variable.				
	Formula: To form a linear regression equation of the form $\hat{y}=mx+b$ , the formulas for the creation of a linear regression equation of the form $\hat{y}=mx+b$ simplify to: $m=\frac{r*SD_y}{SD_x}$ and $b=\bar{y}-m\bar{x}$				
	Write your answer here.				