

So 
$$P(|Y_1-M|\leq 1/2) = P(-\frac{1}{2}\leq Z\leq \frac{1}{2})$$
 where  $Z \sim N(0,1)$   

$$P(|Y_1-M|\leq \frac{1}{2}) = 0.6915 - (1-6.6915) = 0.383$$

