

Rosa dives a total of 10.5 + 28 + 3.5 = 42.0 ft, or  $42 \times 12 = 504$  inches. For the first 10.5 ft, she used 10.5 ft  $\times 2/3 = 7$  units of oxygen. We are told that she used 35 units of oxygen for the next 28 ft of her dive. For the final 3.5 ft, she used  $3.5 \times 4 = 14$  units of oxygen. So, in total, Rosa used 7 + 35 + 14 = 56 units of oxygen. Therefore, on average, Rosa dove 504/56 = 9 inches per unit of oxygen used.