

Rosa dives a total of $10.5+28+3.5=42.0 \mathrm{ft}$, or $42 \times 12=504$ inches. For the first 10.5 ft , she used $10.5 \mathrm{ft} \times 2 / 3=7$ 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.

