

Method 1

Since the marine archaeologist dove a total of 430 + 612 + 456 + 650 = 2148 meters in 4 hours, the average hourly rate is $2148 \div 4 = 537$ meters per hour. At that rate, to dive 3759 meters will take $3759 \div 537 = 7$ hours.

Method 2

The marine archaeologist dove a total of 430 + 612 + 456 + 650 = 2148 meters in 4 hours. We are asked to determine the number of hours h that it will take to dive 3759 meters, at the same average hourly rate. We can set up the proportion 4 hours/2148 meters = h hours/3179 meters. Multiplying both sides of this equation by 3179, we get $h = (4 \times 3179)/2148 = 15,036/2148 =$ 7 hours.