

The Watermen of Hooligan Bay

Last year there were 5,000 watermen in the Hooligan Bay area, and approximately 4,000,000 crabs in the bay. Each year, the number of watermen increases by 1,000, and the population of crabs decreases by 100,000. Last year, the amount of sales in the local crabbing industry was \$50,000,000 and the average cost for a bushel of crabs was \$150. It is projected that the amount of sales in the local crabbing industry will decrease by \$2,500,000 each year. Since the number of crabs is decreasing, the cost for a bushel of crabs is estimated to go up by \$10 each year.

Directions: Use the data above to determine a rule for each of the following tables. Use your rule to generate the terms in the pattern and complete each table.

Table A	
Year	Number of watermen in Hooligan Bay
2012	5,000
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
Rule:	

Table B	
Year	Crab Population in Hooligan Bay
2012	4,000,000
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
Rule:	

Table C	
Year	Industry Sales
2012	\$50,000,000
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
Rule:	

Table D	
Year	Price of Crabs (per bushel)
2012	\$150
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
Rule:	