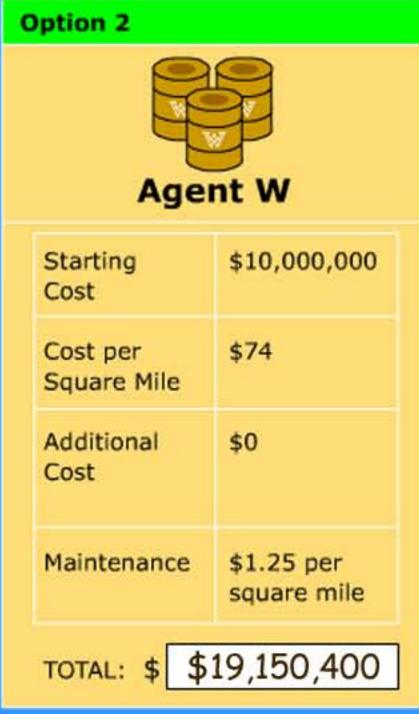
Field Log - Choose the Building Material - Answer Key

Step 1:

Dr. Wick has come up with three options to use as the base of his floating golf course. The three options in the table below all have different prices. Find out how much it will cost to cover Dr. Wick's entire golf course in each option. Write the total cost at the bottom of each column. Remember: the area of Dr. Wick's course was 121,600 square miles!







Be sure to show your work for each option here:

Klimas Kelp

0 + (\$100*121,600) + 0 + \$7,000,000

(12,160,000) + 7,000,000

Total Cost = \$19,160,000

Agent W

\$10,000,000 + (\$74*121, 600) + 0 + (\$1.25*121,600)

10,000,000 + (8,998,400) + (152,000)

Total Cost = \$19,150,400

Wood and Rope

Additional Cost

\$5500/100 sq. mi. = X/1 sq. mi.X = \$55 per sq. mi.

Maintenance

\$550/10 sq. mi. = X/1 sq. mi.

X = \$55 per sq. mi.

 $0 + (\$47.75 \times 121,600) + (\$55 \times 121,600) + (\$55 \times 121,600)$

(5,806,400) + (6,688,000) + (6,688,000)

Step 2:

Total Cost = \$19,182,400

Order the three options from most expensive to least expensive.

Most Expensive

Wood and Rope

Klimas Kelp

Least Expensive
Agent W

Sum it Up:

Make a list of the math terms or formulas you used to decide which option is most expensive.

