Hack Your Treasure

What does it mean to be efficient?

In these puzzles use a special set of instructions to guide our pirate ship to the treasure. Record the solutions to the puzzles below.

Puzzle 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Ships cannot travel into spaces with Coral Reefs.

Fight Sea Monsters by using the harpoon ***** *<u>before</u> you move into that space.*

Puzzle 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Was it more efficient to fight the sea monster or go around?

Puzzle 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Was it more efficient to fight the sea monster or go around?

What is a real-world example where you might choose to go around an obstacle instead of removing it, even though it is more efficient to remove it?

Collect Doubloons by using the ***$*** *instruction <u>after</u> moving into that space.*

Puzzle 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Puzzle 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Which puzzle (4 or 5) was more challenging to solve? Why?

What is the Traveling Salesman Problem?

Reflection:

1. Why is it important to understand efficiency?

2. What are some challenges computer programmers face?

3. What is another real-world example of the Traveling Salesman problem?

4. How might you use what you learned?