**Battleships—A Linear Searching Game**

Instructions

1. Organize yourselves into pairs. One of you has sheet 1A, the other sheet 1B. Don’t show

your sheet to your opponent!

2. Both of you circle one battleship on the top line of your game sheet and tell your opponent

its number.

3. Now take turns to guess where your opponent’s ship is. (You say the letter name of a ship

and your partner tells you the number of the ship at that letter.)

4. How many shots does it take to locate your partner’s ship? This is your score for the

game.

**Answer following questions on the winning teams’ sheet. Put all 4 players on the sheet, circle the winners.**

1. What were the scores?

2. What would be the minimum and maximum scores possible?

**Battleships—A Binary Searching Game**

Instructions

The instructions for this version of the game are the same as for the previous game but the

numbers on the ships are now in ascending order

1. Organise yourselves into pairs. One of you has sheet 2A, the other sheet 2B. Don’t show

your sheet to your partner!

2. Both of you circle one battleship on the top line of your game sheet and tell your partner

its number.

3. Now take turns to guess where your partner’s ship is. (You say the letter name of a ship

and your partner tells you the number of the ship at that letter.)

4. How many shots does it take to locate your partner’s ship? This is your score for the

game.

1. What were the scores?

2. What strategy did the low scorers use?

3. Which ship should you choose first

Which location would you choose next?

4. If this strategy is applied how many shots will it take to find a ship?