**Evaluating Signal to Noise using Semaphore (or Morse Code)**

1. In the space below, transcribe the message as received and understood by your group
2. In the space below, write the actual message that was supposed to be sent
3. How many errors of OMISSION (leaving out) can you identify ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. How about errors of ADDITION (putting in what was never there)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How about errors of SUBSTITUTION (misidentifying a letter)?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Based on your experience, were there more errors created on the TRANSMITTING side or the RECEIVING side?
7. What were the most common problems on the TRANSMITTING side ?
8. What were the most common problems on the RECEIVING side ?
9. Did your NOISE overwhelm your SIGNAL ?
10. How does the CONTENT of the message affect your ability to understand the SIGNAL?
11. What are 2 ways your inexperience affects the NOISE ?
12. On the back of your paper, with your team, decide on an ALGORITHM ( a method) for determining a SIGNAL – TO - NOISE ratio. Describe your method, and use it to mathematically evaluate your signal – to - noise ratio.