Problem Solving Station A

Name: Date: #:

**Solve the Xepa Cholera MYSTERY**

**Cholera** (CALL-er-ah) is a disease that is spread by a bacterium in water or through person-to-person contact. The following is a description of cholera: “The onset of cholera is marked by diarrhea, severe vomiting, and painful cramps. Dehydration (the victim can lose up to 5 gallons of liquid in 24 hours), often accompanied by cyanosis (the body turns blue), gives the sufferer a characteristic and disquieting appearance; face blue and pinched, extremities cold and darkened, the skin on hands and feet drawn and puckered….Death may occur within a day, sometimes within a few hours of the appearance of the first symptoms. These symptoms appear with little or no warning.”

**CHALLENGE:** SOLVE the mystery at the BOTTOM OF THIS PAPER by using the clues given below. Five male cholera survivors are standing in line at a Xepa Health Clinic. Each has a different first name. Each has a different girlfriend with a different name. Each has a different symptom and each drank from a different water source. Lastly, each lives in a different part of town. See if you can find out …

1. Who has dehydration? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Who is Warren’s girlfriend? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Who lives in Cross Roads? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**HOW TO GET STARTED:** Use the five clues below to get started. Remember; think like a scientist. Use your science skills to help you complete the chart. Read through ALL of the clues, over and over, until you completely fill in the chart at the bottom of this paper. Then, you will be able to answer the three questions above.

**FIVE EASY CLUES** Use these five easy clues…FIRST… to help you get started.

**CLUE 1:** The third man in line is a factory worker. **CLUE 2:** The last man’s address is Ashton. **CLUE 3:** The man with the vomiting symptoms is fourth in line. **CLUE 4:** Allen is second in line. **CLUE 5:** Sally’s boyfriend is first in line.

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| **CLUE 6:** Charles is a butcher. | **CLUE 13:** The man who has diarrhea is from Ollin. |
| **CLUE 7:** Zaid has cramps. | **CLUE 14:** Anne’s boyfriend is in front of Susan’s boyfriend. |
| **CLUE 8:** The man who is a tailor, lives in Edmondson. | **CLUE 15:** The man who has diarrhea is three ahead of Donald. |
| **CLUE 9:** The man, who is a banker, has cyanosis as a symptom. | **CLUE 16:** Ruth’s boyfriend is in front of the man with  vomiting symptoms. |
| **CLUE 10:** Jane’s boyfriend lives in Edmondson. | **CLUE 17:** Sally’s boyfriend has diarrhea. |
| **CLUE 11:** Ruth’s boyfriend is in front of the man whose occupation is a steeplejack. | **CLUE 18:** Susan is fifth in line. |
| **CLUE 12:** Anne’s boyfriend is from Yrac. | **CLUE 19:** Ruth’s boyfriend has cramps. |

WRITE YOUR ANSWERS ON THE CHART BELOW

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| --- | --- | --- | --- | --- | --- |
|  | **1st** | **2nd** | **3rd** | **4th** | **5th** |
| Name |  |  |  |  |  |
| Girlfriend |  |  |  |  |  |
| Symptoms |  |  |  |  |  |
| Occupation |  |  |  |  |  |
| Address |  |  |  |  |  |