Name Date



**Survival Badge**

The 132nd Troop Boy Scouts were on a wilderness adventure to earn one of their survival badges. The 12 boys in the troop were only given pocket knives and water canteens. Each canteen could hold 3 cups of water but only one of them was full. As part of their survival training the boys recognized that they needed to divide the water evenly amongst the troop.

Below is a table containing the amount of water that each canteen was holding.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Canteen** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| **Amount of Water in Cups** | 2 ¼ | 2 ¾ | 2 ¼ | 2 ¾ | 2 ¼ | 2 ½ | 2 ½ | 2 ¾ | 3 | 2 | 2 ½ | 2 ½ |

1. Create a line plot to represent the data.
2. If the boys shared the water evenly amongst the 12 canteens, how much water would each boy get in their canteen? Explain your thinking.

The 132nd Troop Boy Scouts were on a wilderness adventure to earn one of their survival badges. The 12 boys in the troop were only given pocket knives and water canteens. Each canteen could water but only one of them was full. As part of their survival training the boys recognized that they needed to divide the water evenly amongst the troop.

The table below contains how full each canteen was full.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Canteen** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| **How much of the canteen was full** | ¼ | ¾ | ¼ | ¾ | ¼ | ½ | ½ | ¾ | full | empty | ½ | ½ |

1. Create a line plot to represent the data.
2. If the boys shared the water evenly amongst the 12 canteens, how would each canteen be after sharing? Explain your thinking.