Twenty-four hourly readings of the percent lime concentration are shown below

|  |  |  |  |
| --- | --- | --- | --- |
| Hour | %CaO | Hour | %CaO |
| 1 | 0.19 | 13 | 0.16 |
| 2 | 0.13 | 14 | 0.15 |
| 3 | 0.11 | 15 | 0.20 |
| 4 | 0.19 | 16 | 0.16 |
| 5 | 0.16 | 17 | 0.14 |
| 6 | 0.17 | 18 | 0.16 |
| 7 | 0.13 | 19 | 0.14 |
| 8 | 0.17 | 20 | 0.10 |
| 9 | 0.10 | 21 | 0.13 |
| 10 | 01.4 | 22 | 0.20 |
| 11 | 0.17 | 23 | 0.26 |
| 12 | 0.14 | 24 | 0.16 |

1. Use these 24 values to construct a two-period Moving Average Chart.
2. The next 12 hourly readings for percent lime are:
   1. 0.18 0.18 0.20 0.11 0.30 0.21 0.11 0.17 0.18 0.13 0.28

Plot these values on the continuation of the Moving Average Chart.

1. What does the Moving Average Chart reveal about this process?
2. Is the Moving Range Chart a useful addition to the Moving Average Chart?
3. Which chart is easier to use for these periodic data, the XmR Chart or the Moving Average Chart?