## Unit 6 Lesson 4 Cumulative Practice Problems

1. The graph and the table show the high temperatures in a city over a 10-day period.
* 

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * day
 | * 1
 | * 2
 | * 3
 | * 4
 | * 5
 | * 6
 | * 7
 | * 8
 | * 9
 | * 10
 |
| * temperature (degrees F)
 | * 60
 | * 61
 | * 63
 | * 61
 | * 62
 | * 61
 | * 60
 | * 65
 | * 67
 | * 63
 |

* 1. What was the high temperature on Day 7?
	2. On which days was the high temperature 61 degrees?
	3. Is the high temperature a function of the day? Explain how you know.
	4. Is the day a function of the high temperature? Explain how you know.
1. The amount Lin’s sister earns at her part-time job is proportional to the number of hours she works. She earns $9.60 per hour.
	1. Write an equation in the form $y=kx$ to describe this situation, where $x$ represents the hours she works and $y$ represents the dollars she earns.
	2. Is $y$ a function of $x$? Explain how you know.
	3. Write an equation describing $x$ as a function of $y$.
2. Use the equation $2m+4s=16$ to complete the table, then graph the line using $s$ as the dependent variable.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| * $m$
 | * 0
 |  | * -2
 |  |
| * $s$
 |  | * 3
 |  | * 0
 |

* 
1. Solve the system of equations: $\left\{\begin{matrix}y=7x+10\\y=-4x−23\end{matrix}\right.$
* (From Unit 5, Lesson 14.)



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