## Unit 7 Lesson 13 Cumulative Practice Problems

1. The elevation of a submarine is shown in the table. Draw and label coordinate axes with an appropriate scale and plot the points.

|  |  |
| --- | --- |
| * time after noon (hours)
 | * elevation (meters)
 |
| * 0
 | * -567
 |
| * 1
 | * -892
 |
| * 2
 | * -1,606
 |
| * 3
 | * -1,289
 |
| * 4
 | * -990
 |
| * 5
 | * -702
 |
| * 6
 | * -365
 |

*
1. The inequalities $h>42$ and $h<60$ represent the height requirements for an amusement park ride, where $h$ represents a person's height in inches.
* Write a sentence or draw a sign that describes these rules as clearly as possible.
* (From Unit 7, Lesson 8.)
1. The $x$-axis represents the number of hours before or after noon, and the $y$-axis represents the temperature in degrees Celsius.
* 
	1. At 9 a.m., it was below freezing. In what quadrant would this point be plotted?
	2. At 11 a.m., it was $10^{∘}C$. In what quadrant would this point be plotted?
	3. Choose another time and temperature. Then tell the quadrant where the point should be plotted.
	4. What does the point $(0,0)$ represent in this context?
1. Solve each equation.
* $3a=12$
* $b+3.3=8.9$
* $1=\frac{1}{4}c$
* $5\frac{1}{2}=d+\frac{1}{4}$
* $2e=6.4$
* (From Unit 6, Lesson 4.)



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