Lesson 13 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.
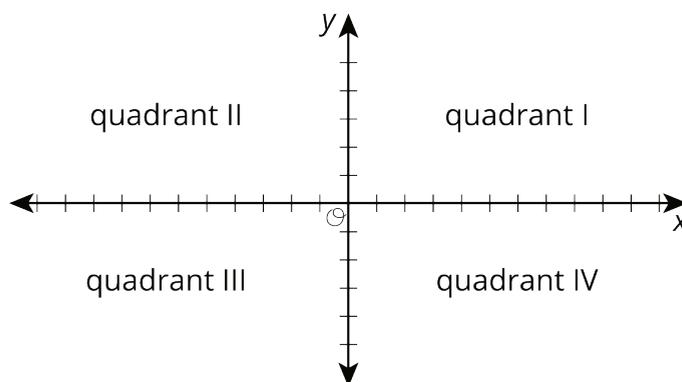
time after noon (hours)	elevation (meters)
0	-567
1	-892
2	-1,606
3	-1,289
4	-990
5	-702
6	-365

2. 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.)

3. The x-axis represents the number of hours before or after noon, and the y-axis represents the temperature in degrees Celsius.

a. At 9 a.m., it was below freezing. In what quadrant would this point be plotted?

b. At 11 a.m., it was $10°\text{C}$. In what quadrant would this point be plotted?

c. Choose another time and temperature. Then tell the quadrant where the point should be plotted.

d. What does the point $(0, 0)$ represent in this context?

4. Solve each equation.

$3a = 12$ $\qquad\qquad$ $b + 3.3 = 8.9$ $\qquad\qquad$ $1 = \frac{1}{4}c$

$5\frac{1}{2} = d + \frac{1}{4}$ $\qquad\qquad$ $2e = 6.4$

(From Unit 6, Lesson 4.)

Grade 6 Unit 7
Lesson 13

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