### Lesson 6 Practice Problems

1. Write a sentence to answer each question:
	1. How much warmer is 82 than 40?
	2. How much warmer is 82 than -40?
	3. What is the difference in height between 30 m up a cliff and 87 m up a cliff? What is the distance between these positions?
	4. What is the difference in height between an albatross flying at 100 m above the surface of the ocean and a shark swimming 30 m below the surface? What is the distance between them if the shark is right below the albatross?
2. A company produces screens of different sizes. Based on the table, could there be a relationship between the number of pixels and the area of the screen? If so, write an equation representing the relationship. If not, explain your reasoning.

| * square inches of screen
 | * number of pixels
 |
| --- | --- |
| * 6
 | * 31,104
 |
| * 72
 | * 373,248
 |
| * 105
 | * 544,320
 |
| * 300
 | * 1,555,200
 |

* (From Unit 2, Lesson 8.)
1. Find each difference.
	* $\left(-5\right)−6$
	* $35−\left(-8\right)$
	* $\frac{2}{5}−\frac{3}{5}$
	* $-4\frac{3}{8}−\left(-1\frac{1}{4}\right)$
2. A family goes to a restaurant. When the bill comes, this is printed at the bottom of it:

|  |
| --- |
| * Gratuity Guide For Your Convenience:15% would be $4.8918% would be $5.8720% would be $6.52
 |

* How much was the price of the meal? Explain your reasoning.
* (From Unit 4, Lesson 10.)
1. Which is a scaled copy of Polygon A? Identify a pair of corresponding sides and a pair of corresponding angles. Compare the areas of the scaled copies.
* 
* (From Unit 1, Lesson 2.)



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