### Lesson 10 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. The table shows four transactions and the resulting account balance in a bank account, except some numbers are missing. Fill in the missing numbers.

|  | * transaction amount
 | * account balance
 |
| --- | --- | --- |
| * transaction 1
 | * 360
 | * 360
 |
| * transaction 2
 | * -22.50
 | * 337.50
 |
| * transaction 3
 |  | * 182.35
 |
| * transaction 4
 |  | * -41.40
 |

*
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. Last week, it rained $g$ inches. This week, the amount of rain decreased by 5%. Which expressions represent the amount of rain that fell this week? Select **all** that apply.
	1. $g−0.05$
	2. $g−0.05g$
	3. $0.95g$
	4. $0.05g$
	5. $\left(1−0.05\right)g$
* (From Unit 6, Lesson 5.)
1. 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 5, Lesson 5.)



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