### Lesson 4 Practice Problems

1. The table shows five 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
 | * 200
 | * 200
 |
| * transaction 2
 | * -147
 | * 53
 |
| * transaction 3
 | * 90
 |  |
| * transaction 4
 | * -229
 |  |
| * transaction 5
 |  | * 0
 |

* 1. Clare has $54 in her bank account. A store credits her account with a $10 refund. How much does she now have in the bank?
	2. Mai's bank account is overdrawn by $60, which means her balance is -$60. She gets $85 for her birthday and deposits it into her account. How much does she now have in the bank?
	3. Tyler is overdrawn at the bank by $180. He gets $70 for his birthday and deposits it. What is his account balance now?
	4. Andre has $37 in his bank account and writes a check for $87. After the check has been cashed, what will the bank balance show?
1. 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 4, Lesson 8.)
1. Decide whether or not each equation represents a proportional relationship.
	1. Volume measured in cups ($c$) vs. the same volume measured in ounces ($z$): $c=\frac{1}{8}z$
	2. Area of a square ($A$) vs. the side length of the square ($s$): $A=s^{2}$
	3. Perimeter of an equilateral triangle ($P$) vs. the side length of the triangle ($s$): $3s=P$
	4. Length ($L$) vs. width ($w$) for a rectangle whose area is 60 square units: $L=\frac{60}{w}$
* (From Unit 2, Lesson 8.)
1. Add.
	1. $5\frac{3}{4}+\left(-\frac{1}{4}\right)$
	2. $-\frac{2}{3}+\frac{1}{6}$
	3. $-\frac{8}{5}+\left(-\frac{3}{4}\right)$
* (From Unit 5, Lesson 3.)
1. In each diagram, $x$ represents a different value.
* 
* For each diagram,
	1. What is something that is *definitely* true about the value of $x$?
	2. What is something that *could be* true about the value of $x$?
* (From Unit 5, Lesson 1.)



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