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

2. a. 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?

   b. 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?

   c. Tyler is overdrawn at the bank by $180. He gets $70 for his birthday and deposits it. What is his account balance now?

   d. 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?

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3. 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.

   A. $g - 0.05$

   B. $g - 0.05g$

   C. $0.95g$

   D. $0.05g$

   E. $(1 - 0.05)g$

(From Unit 4, Lesson 8.)

4. Decide whether or not each equation represents a proportional relationship.

   a. Volume measured in cups (c) vs. the same volume measured in ounces (z): $c = \frac{1}{8}z$

   b. Area of a square (A) vs. the side length of the square (s): $A = s^2$

   c. Perimeter of an equilateral triangle (P) vs. the side length of the triangle (s): $3s = P$

   d. Length (L) vs. width (w) for a rectangle whose area is 60 square units: $L = \frac{60}{w}$

(From Unit 2, Lesson 8.)

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5. Add.

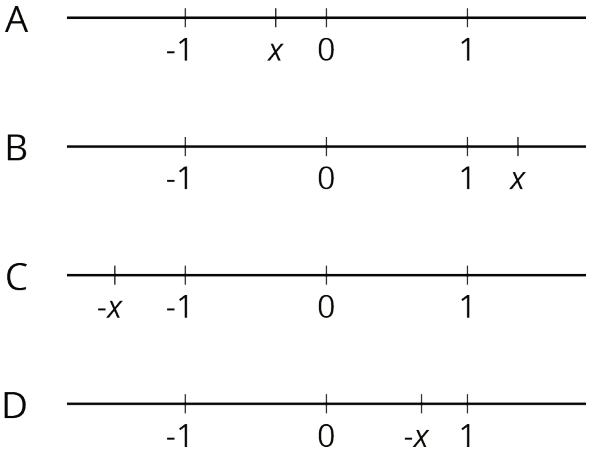
   a. $5\frac{3}{4} + (-\frac{1}{4})$

   b. $-\frac{2}{3} + \frac{1}{6}$

   c. $-\frac{8}{5} + (-\frac{3}{4})$

(From Unit 5, Lesson 3.)

6. In each diagram, x represents a different value.



For each diagram,

   a. What is something that is *definitely* true about the value of x?

   b. What is something that *could be* true about the value of x?

(From Unit 5, Lesson 1.)

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