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Unit 5, Lesson 4: Money and Debts

1. 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)

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 owes the bank \$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. His brother has \$70 more than him. How much money does Tyler's brother have?

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?

3. Last week, it rained x 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)

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4. 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

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)

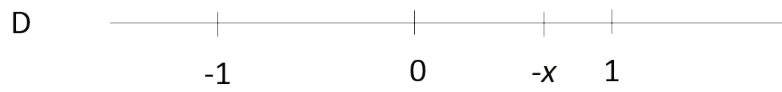
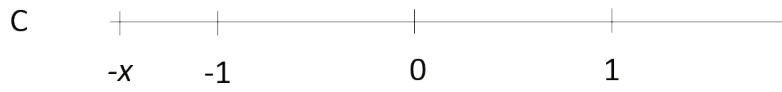
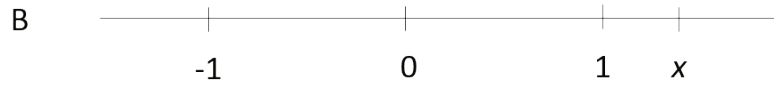
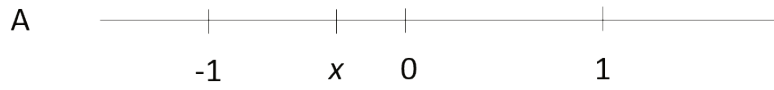
6. In each diagram, x represents a different value. For each diagram,

- What is something that is *definitely* true about the value of x ?
- What is something that *could be* true about the value of x ?

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(from Unit 5, Lesson 1)