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Unit 5, Lesson 3: Changing Elevation

- 1. Decide whether each table could represent a proportional relationship. If the relationship could be proportional, what would be the constant of proportionality?
 - a. Annie's Attic is giving away \$5 off coupons.

original price	price sale price	
\$15	\$10	
\$25	\$20	
\$35	\$30	

b. Bettie's Boutique is having a 20% off sale.

original price	orice sale price	
\$15	\$12	
\$25	\$20	
\$35	\$28	

(from Unit 2, Lesson 7)

2. What is the final elevation if

- a. A bird starts at 20 m and changes 16 m?
- b. A butterfly starts at 20 m and changes -16 m?
- c. A diver starts at 5 m and changes -16 m?
- d. A whale starts at -9 m and changes 11 m?

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e. A fish starts at -9 meters and changes -11 meters?

3. One of the particles in an atom is called an electron. It has a charge of -1. Another particle in an atom is a proton. It has charge of +1. The charge of an atom is the sum of the charges of the electrons and the protons. A carbon atom has an overall charge of 0, because it has 6 electrons and 6 protons and -6 + 6 = 0. Find the overall charge for the rest of the elements on the list.

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	charge from electrons	charge from protons	overall charge
carbon	-6	+6	0
neon	-10	+10	
oxide	-10	+8	
copper	-27	+29	
tin	-50	+50	

4. Last week, the price, in dollars, of a gallon of gasoline was g. This week, the price of gasoline per gallon increased by 5%. Which expressions represent this week's price, in dollars, of a gallon of gasoline? Select **all** that apply.

A. g + 0.05B. g + 0.05gC. 1.05g D. 0.05g E.(1+0.05)g

(from Unit 4, Lesson 8)

5. Add.