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## Unit 4, Lesson 3: Revisiting Proportional Relationships

1. It takes an ant farm 3 days to consume  $\frac{1}{2}$  of an apple. At that rate, in how many days will the ant farm consume 3 apples?
2. To make a shade of paint called jasper green, mix 4 quarts of green paint with  $\frac{2}{3}$  cups of black paint. How much green paint should be mixed with 4 cups of black paint to make jasper green?
3. An airplane is flying from New York City to Los Angeles. The distance it travels in miles,  $d$ , is related to the time in seconds,  $t$ , by the equation  $d = 0.15t$ .
  - a. How fast is it flying? Be sure to include the units.
  - b. How far will it travel in 30 seconds?
  - c. How long will it take to go 12.75 miles?
4. A grocer can buy strawberries for \$1.38 per pound.
  - a. Write an equation relating  $c$ , the cost, and  $p$ , the pounds of strawberries.
  - b. A strawberry order cost \$241.50. How many pounds did the grocer order?
5. Crater Lake in Oregon is shaped like a circle with a diameter of about 5.5 miles.

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a. How far is it around the perimeter of Crater Lake?

b. What is the area of the surface of Crater Lake?

(from Unit 3, Lesson 10)

6. A 50-centimeter piece of wire is bent into a circle. What is the area of this circle?

(from Unit 3, Lesson 8)

7. Suppose Quadrilaterals A and B are both squares. Are A and B necessarily scale copies of one another? Explain.

(from Unit 1, Lesson 2)