Student Guide

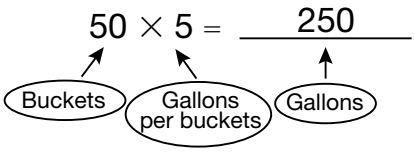
Elixir of Youth (pp. 386 and 394)
Questions 1–7

1.

Number of Buckets	Number of Gallons
1	5
2	10
3	**15**
5	**25**
10	**50**
20	**100**
50	**250**

2.* Responses will vary. See Figure 1.

3. 50 buckets × 5 gallons per bucket = 250 gallons

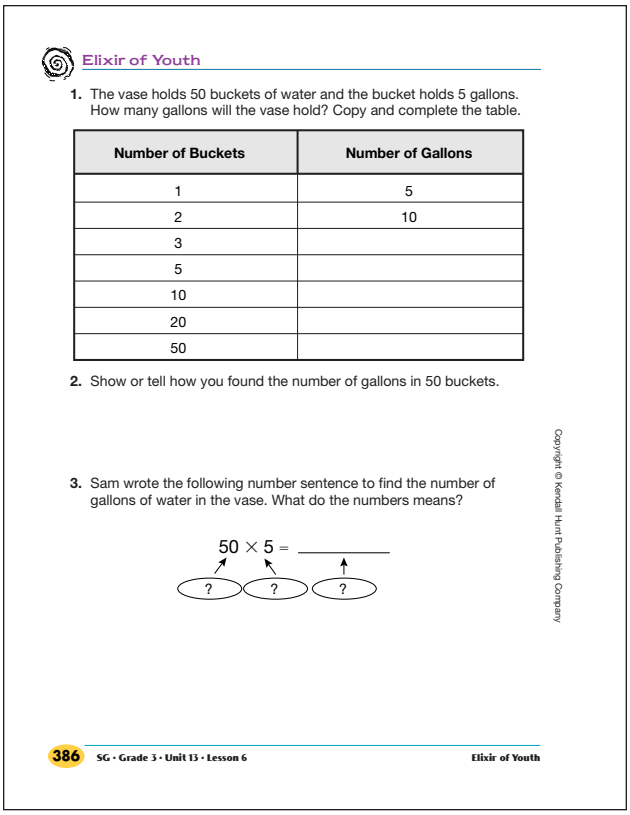


4. 240 miles; 102 + 84 + 54 = 240 miles

5. 12 gallons

6. About 20 miles on one gallon of gas; 240 ÷ 12 = 20 miles per gallon

7. The thief drove 80 miles; 20 miles per gallon × 4 gallons = 80 miles.


Elixir of Youth

1. The vase holds 50 buckets of water and the bucket holds 5 gallons. How many gallons will the vase hold? Copy and complete the table.

Number of Buckets	Number of Gallons
1	5
2	10
3	
5	
10	
20	
50	

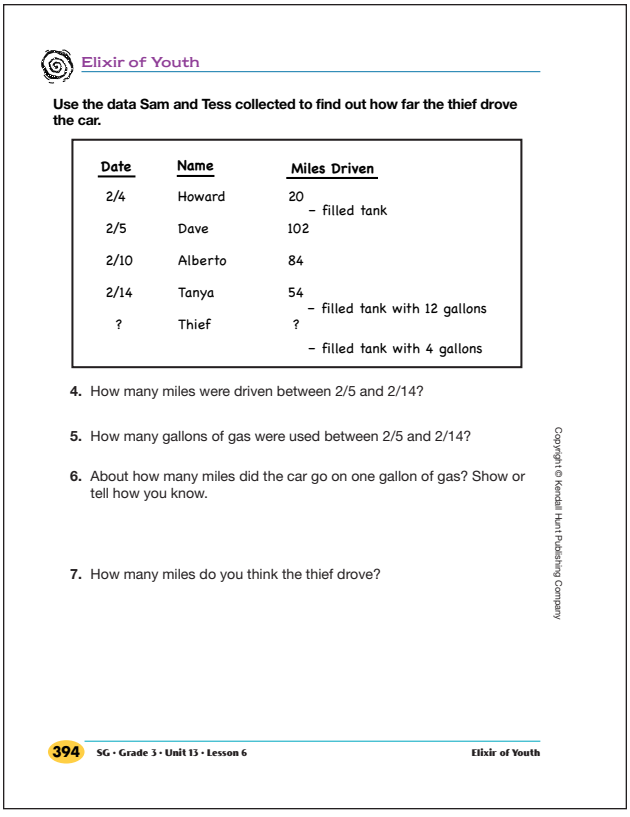
2. Show or tell how you found the number of gallons in 50 buckets.

3. Sam wrote the following number sentence to find the number of gallons of water in the vase. What do the numbers means?

50 × 5 = _____
? ? ?

386 SG • Grade 3 • Unit 13 • Lesson 6 Elixir of Youth

***Student Guide* - Page 386**


Elixir of Youth

Use the data Sam and Tess collected to find out how far the thief drove the car.

Date	Name	Miles Driven
2/4	Howard	20 – filled tank
2/5	Dave	102
2/10	Alberto	84
2/14	Tanya	54 – filled tank with 12 gallons
?	Thief	? – filled tank with 4 gallons

4. How many miles were driven between 2/5 and 2/14?

5. How many gallons of gas were used between 2/5 and 2/14?

6. About how many miles did the car go on one gallon of gas? Show or tell how you know.

7. How many miles do you think the thief drove?

394 SG • Grade 3 • Unit 13 • Lesson 6 Elixir of Youth

***Student Guide* - Page 394**

***Answers and/or discussion are included in the lesson.**

Name _____ Date _____

Soup for Lunch

Tess and Sam decided to make soup for lunch for the Volume Detective Society. They need to prepare about 2 cups of soup for each person.

1. Complete the table to help Tess and Sam plan for the different numbers of guests.

Guests and Cups of Soup

Number of Guests	Cups of Soup
1	2
5	
10	
	40
30	
50	

2. If 100 people attend the lunch, about how many cups of soup will they need? Show or tell how you decided.

3. If 500 people attend the lunch, about how many cups of soup will they need? Show or tell how you decided.

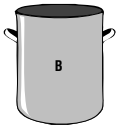
4. Sam and Tess made 70 cups of soup. How many people will they be able to serve?

Student Activity Book **- Page 541**

Name _____ Date _____

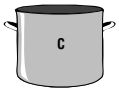
5. Tess and Sam have the following collection of pots to cook the soup. They measured to find the volume of each pot. Use their notes to determine the number of cups in each pot.

Holds 20 cups



Holds the volume of Pot A 2 times

_____ cups



Holds the volume of Pot A and $\frac{1}{2}$ the volume of Pot A.

_____ cups

6. Which pot should Tess and Sam use for each number of guests? Show or tell how you decided.

A. 10 guest

B. 40 guest

Student Activity Book **- Page 542**

Student Activity Book

Soup for Lunch (pp. 541–542)
Questions 1–6

1.

Number of Guests	Cups of Soup
1	**2**
5	**10**
10	**20**
20	40
30	**60**
50	**100**

2. 200 cups of soup; Possible response: If they need 100 cups for 50 guests, then they need 200 cups for 100 guests.

3. 1000 cups of soup; Possible response: If they need 100 cups for 50 guests, then they need 1000 cups for 500 guests, or $500 \times 2 = 1000$.

4. 35 guests; Possible response:
$40 + 20 + 10 = 70$ cups of soup, so
$20 + 10 + 5 = 35$ guests for 70 cups.

5. Pot B hold 40 cups and
Pot C holds 30 cups

6. **A.** Pot A; They should use Pot A because they need 20 cups of soup for 10 people and Pot A holds 20 cups.

   B. Pots A, B, and C. They need 80 cups of soup for 40 people. They could fill Pot B and Pot C and fill Pot A half way.