

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?


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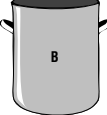
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5. Tess and Sam have the following collection of pots to cook the soup. They measured to find the volume of each pot. Use their notes to determine the number of cups in each pot.

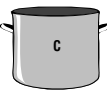


Holds 20 cups



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

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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.