



Answer the following questions using number sense and estimation.

1. Samantha's mom left a message on her cell phone asking her to stop by the grocery store and buy honey. She told Samantha to find the best buy. Honey is available in four sizes at the following prices. Which should Samantha buy? Explain your reasoning.

12 oz. \$1.99

16 oz. \$3.69

24 oz. \$4.69

40 oz. \$7.55

2. A chocolate chip cookie recipe calls for  $1\frac{1}{4}$  cups of chocolate chips. Haylie followed the original recipe using  $1\frac{1}{4}$  cups of chocolate chips. Renee used the same recipe but needed to make three batches of chocolate chips cookies for a party. Instead of measuring the chocolate chips, she used a giant sized bag of chocolate chips. Later, she checked the label on the bag of chocolate chips and found that the giant bag contained 4 cups of chocolate chips. Whose cookies will be more "chocolatey?" Explain your reasoning.
3. Katie, Felipe, and Jeremy each made lemonade, but none of them read the directions. Katie mixed 3 scoops of lemonade mix with 6 cups of water. Felipe mixed 1 scoop of mix with 3 cups of water. Jeremy mixed 2 scoops of mix with 5 cups of water. Whose lemonade mixture will be the strongest? Explain your reasoning.

Whose lemonade mixture will be the weakest? Explain your reasoning.



4. The dimensions of Classroom A are 25 feet x 20 feet, and this classroom has 15 students. The dimensions of Classroom B are 48 feet x 41 feet and has 45 students. Which classroom is the most crowded? Explain your reasoning.
5. There are two parking lots available at the mall. East Lot has 242 spaces and West Lot has 312 spaces. Electronic signs are placed at the entrances to the parking lots to inform shoppers about parking availability. As cars enter and exit each parking lot, the “number occupied” changes.

**East Lot**

Number of spaces: 242  
Number occupied: 170

**West Lot**

Number of spaces: 312  
Number occupied: 234

Which lot is more occupied? Explain your reasoning. In which lot are you more likely to find a parking space? Explain your reasoning.