



Ratios and Proportions

Worksheet 1

Choice *E*, in multiple-choice questions, is always: *I request help from the teacher.*

You may mark *E* in addition to one other choice if you think that you have the right answer to the question but you do not feel that you have a complete understanding of the problem.

Your teacher will decide whether to use the two-point or four-point scoring rubric for problems that use numbers, pictures, or words to justify/explain your answer(s). You may request help for these questions, too. Write the word “teacher” by your answer(s).

- Chris is helping plan a party for her sister, Jillian. Jillian invited 35 friends. Chris wants to make old fashioned strawberry shortcake. Her grandmother’s recipe for the shortcake biscuits will make enough for 12 biscuits. Since Jillian’s friends like to eat, Chris wants enough so that Jillian and each of her friends get two biscuits. How many recipes should she make so she has enough biscuits?
A. $2\frac{1}{2}$ B. 4 C. 6 D. 3 E. Teacher
- For the strawberry shortcake in exercise #1, Chris needs $\frac{1}{2}$ pint of strawberries for each person. How many strawberries should she buy?
A. 18 quarts B. 9 quarts C. 12 pints D. 6 pints E. Teacher
- Jillian wants to string popcorn as a decoration for her party. She estimates that it will take 15 popped kernels for every 9 inches of string. She needs 100 feet of stringed popcorn. How many popped kernels does she need?
A. 20 B. 200 C. 2,000 D. 20,000 E. Teacher
- Jillian decided to string glass beads instead of popcorn. She can use 7 very large beads for every 9 inches of string. She now wants 240 feet of stringed beads. If the beads cost 13 cents per bead, how much money would it cost buy enough beads to string 240 feet of them?
A. \$31.20 B. \$163.80 C. \$216.00 D. \$291.20 E. Teacher
- Manny is bringing his favorite cherry flavored Kool-Aid for the 36 people at Jillian’s party. He figures that each person will drink two 8-oz. glasses of Kool-Aid. One packet of Kool-Aid will make eight 8-oz. glasses. How many packets should he buy?
A. 18 B. 9 C. 4 D. 2 E. Teacher
- How much water would Manny need if he decided to use six packets of Kool-Aid and each packet needed 4 cups?
A. 6 quarts B. 6 pints C. 6 cups D. 20 cups E. Teacher



7. How much sugar would Manny need if he used 6 packets of Kool-Aid and each packet needed $1\frac{1}{2}$ cups of sugar?
- A. 6 cups B. 8 cups C. 9 cups D. 4 cups E. Teacher
8. Carter has 230 CDs. He saw a CD holder at the store that he really liked. This holder was made for 21 CDs. How many holders does Carter need so all of his CDs will fit?
- A. 8 B. 9 C. 10 D. 11 E. Teacher
9. Chris's parents will open a new restaurant called *The Red Hot Chili Peppers*. The restaurant will have circular tables that seat six people each. How many tables should they purchase if they want seating for 150 patrons at one time (assuming there is sufficient room)?
- A. 25 B. 30 C. 40 D. 50 E. Teacher
10. Chris's parents bought a used coffee maker for their restaurant. The coffee maker needs 2 pre-measured packets of ground coffee beans for 10 cups of perked coffee. If Chris is supposed to make 35 cups of coffee, how many packets does she need?
- A. 5 B. 4 C. 7 D. 10 E. Teacher