Problem Solving

Solve each problem. You may make a Linked Multiplication Column Table or a Ratio Table to help you solve each problem.

1. Alfie and Jay pick the tomatoes in their gardens when they are ripe. The tomatoes in Alfie’s garden ripen at a rate of 5 tomatoes per day. The tomatoes in Jay’s garden ripen at a rate of 7 tomatoes per day. In how many days will Alfie and Jay have picked a total of 4 dozen tomatoes?

2. Tara has two prize chickens. Chickie lays 4 eggs per week. Henny lays 7 eggs per week. How many more eggs will Henny have laid than Chickie after 5 weeks?

3. There were 2 adults for every 9 students who went on a field trip to Washington, D.C. If 108 students went on the trip, how many adults went with them?

4. The twins Caryn and Carrie were both given quarter banks for their birthday. Caryn saves 8 quarters per week, and Carrie saves 11 quarters per week. In what week will Carrie have saved $5.25 more than Caryn?

5. Hot dogs are sold in packages of 10. Hot dog buns are sold in packages of 8. How many packages of hot dogs and hot dog buns will Stan need to buy for a picnic if he wants to have the same number of hot dogs and buns?

6. Explain Your Thinking  How did you find the answer to problem 4?
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1. Alfie and Jay pick the tomatoes in their gardens when they are ripe. The tomatoes in Alfie’s garden ripen at a rate of 5 tomatoes per day. The tomatoes in Jay’s garden ripen at a rate of 7 tomatoes per day. In how many days will Alfie and Jay have picked a total of 4 dozen tomatoes?

4 days

2. Tara has two prize chickens. Chickie lays 4 eggs per week. Henny lays 7 eggs per week. How many more eggs will Henny have laid than Chickie after 5 weeks?

15 more eggs

3. There were 2 adults for every 9 students who went on a field trip to Washington, D.C. If 108 students went on the trip, how many adults went with them?

24 adults

4. The twins Caryn and Carrie were both given quarter banks for their birthday. Caryn saves 8 quarters per week, and Carrie saves 11 quarters per week. In what week will Carrie have saved $5.25 more than Caryn?

week 7

5. Hot dogs are sold in packages of 10. Hot dog buns are sold in packages of 8. How many packages of hot dogs and hot dog buns will Stan need to buy for a picnic if he wants to have the same number of hot dogs and buns?

5 packages of buns, 4 packages of hot dogs

6. Explain Your Thinking How did you find the answer to problem 4?

Sample answer: I found how many quarters each girl saved after each week. Then I multiplied the number of quarters by \(\frac{1}{4}\) to find how many dollars each saved. Then I found the week in which the difference was $5.25.