Ratio and Rates Word Problems

Solve each word problem.

1) Bob has 12 red cards and 20 green cards. What is the ratio of Bob's red cards to his green cards? _______________

2) In a party, 10 soft drinks are required for every 12 guests. If there are 252 guests, how many soft drinks is required? _______________

3) In Jack's class, 18 of the students are tall and 10 are short. In Michael's class 54 students are tall and 30 students are short. Which class has a higher ratio of tall to short students? _______________

4) The price of 3 apples at the Quick Market is $1.44. The price of 5 of the same apples at Walmart is $2.50. Which place is the better buy? _______________

5) The bakers at a Bakery can make 160 bagels in 4 hours. How many bagels can they bake in 16 hours? What is that rate per hour? _______________

6) You can buy 5 cans of green beans at a supermarket for $3.40. How much does it cost to buy 35 cans of green beans? _______________

7) The ratio of boys to girls in a class is 2:3. If there are 18 boys in the class, how many girls are in that class? _______________

8) The ratio of red marbles to blue marbles in a bag is 3:4. If there are 42 marbles in the bag, how many of the marbles are red? _______________
Answers

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1) 3: 5
2) 210
3) The ratio for both classes is 9 to 5.
4) Quick Market is a better buy.
5) 640, the rate is 40 per hour.
6) $23.80
7) 27
8) 18