Solve each problem.

1) Last year's phone model had a battery that lasted 12 hours. This year the battery only lasted for 7.44 hours. What was the percent the battery life decreased?

2) Lana used to live 12 kilometers away from the school, but after she moved she now lives 8.88 kilometers away. She is _____ percent closer to the school.

3) A library normally collected $38.00 in fees a month. But in March they collected $51.68. What is the percent increase in the number of fees collected in March?

4) Janet bought a computer for $378.30. John bought one for $485.00. Janet's computer was _____ percent cheaper.

5) Last month Jerry spent $93.00 dollars on games. This month he only spent $68.82. He spent _____ percent less this month.

6) Normally a chef uses 12 ounces of chocolate to make chocolate chip cookies. But he started using 16.56 ounces instead. He should advertise the cookies as having _____ percent more chocolate.

7) A store sold $14.00 dollars worth of gift cards in October. The next month the goal was to sell $17.08 worth of gift cards. This is an increase of _____ percent.

8) It used to take Isabel 8 minutes to do 20 multiplication problems. Now she can do the same page in 8.96 minutes. She is now _____ percent faster.

9) In the spring the average score for a division worksheet was 50. But back in the fall the average score was 38. The fall score was _____% lower than the spring score.

10) A large soda is 216 calories and a small soda is 177.12 calories. The small soda has _____ percent fewer calories.
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**Answers**

1. 38
2. 26
3. 36
4. 22
5. 26
6. 38
7. 22
8. 12
9. 24
10. 18
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