

Your family will be going to Europe this summer for 6 weeks. A lot of preparation is necessary!!

Part I: Your shopping trip.

You go to Kohl's for some vacation shopping with your friends. You will purchase the items listed below. Give the total you will pay at the register when you are checking out.

- a) iPad case for dad: \$89.90 with a 25% discount.



- b) 5 t-shirts in different colors priced at \$15.95. Each shirt is on sale for 20% off when you purchase more than 2 shirts.



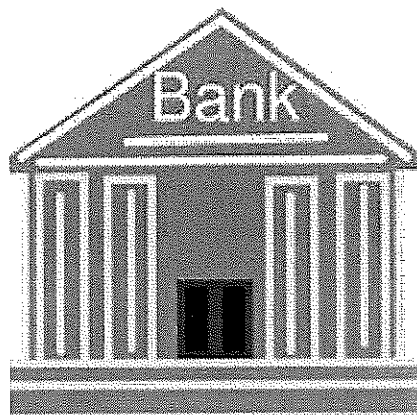
- c) Headphones for \$49.99 that were just marked up 45%. Ugh!



You are ready to check out but don't forget the 5% tax you must pay after all the discounts.

Part III: A trip to the Bank!

- a) Your family needs to borrow \$12,500 from the bank for the airplane fares. The bank manager informs you that there is a 7.5% interest rate and that you will need to pay the loan back in 36 months. How much interest will you have to pay? How much money will need to be repaid to the bank?
- b) Dad decides that while he is in the bank he should make a deposit so you can have some cash while you are away. He deposits \$8200 into the savings account, but the interest rate is only 2.2% and the money will only be in the bank for 24 months. How much interest will he have earned in that time if he keeps the money in the bank for that long?
- c) Grandma comes to the rescue with the \$ 15000 interest she had earned from her account. The money was in there for 35 years and her interest rate was 4.5%. She gives the interest and principal to your family. How much money is that?



Part IV: Almost time to go!!

Things in Europe are so much more expensive than in Boston. Tell what the percent increase is for the following items.

- a) Croissant in U.S. - \$4.50
Croissant in Paris - \$8.75

- b) Toothpaste in U.S. - \$3.69
Toothpaste in Rome - \$9.30



- c) Cup of hot tea in U.S. - \$3.50
Cup of hot tea in London - \$6.75

Part V: Travel Times

- a) You think that the flying time from Boston to London is 8.5 hours, but it is actually only 6.25 hours. What is your percentage error?
- b) You think it takes 1.5 hours to take the train from London to Paris, but it is actually a 2.25 hour ride. What is your percentage error?

