

# Group Practice Test Acc (100 pts)

Name \_\_\_\_\_

**Directions:** You may use your notes & calculator for this test, but you may NOT copy anything from another's paper. You may, however, explain how to do a problem to your group members, and you may call the teacher over for a hint on any problem. Your grade will be based on a combination of your own work and your group members' work, so make sure **everybody** in your group understands the problem thoroughly. Make sure you show all the work for full credit. When your group is done, staple all papers together **properly with one staple**. To show that you are reading these directions, write "show all work" in capital letters across the top of the page.

Note: This practice test will have only one-quarter the weight of a real test"

**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. At the end, you will give the total you will pay at the register when you are checking out, but do each part separately. (4 pts ea)

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



- b) Kohl's has t-shirts in different colors priced at \$15.95. Each shirt is on sale for 20% off when you purchase more than 2 shirts. You purchase 3. How much money do you spend?



- c) Headphones for \$49.99, but with your special "Good Customer" coupon you pay the price before the 45% markup.



You are ready to check out but don't forget the 5% tax you must pay after all the discounts. What is the total you have spent? (7 pts)



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Name \_\_\_\_\_

## Part II: The End of School! (4 pts each)



- 1) It's time for the Spring Concert. 40% of the students are musicians. 75% of those musicians have to read sheet music when they play their instruments. If 38 of the students can play their instruments without reading sheet music, how many students are there at the Middle School?
- 2) 240 students said that they are not going on vacation, which is 48% of the school's student enrollment. How many students attend the school?
- 3) You and your science teacher spend  $4\frac{1}{2}$  hours after school studying for the final exam. This time makes up 6% of the time needed to fully study. How much time is needed to fully study for the test?
- 4) 15% of the students in Mr. Keohan's social studies classes watch the local news every night. Mr. Keohan found that 136 of his students do not watch the local news. How many students are in Mr. Keohan's social studies classes?

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Name \_\_\_\_\_

## Part III: A trip to the bank! (5 pts each)

- 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?

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Name \_\_\_\_\_

## 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. (4 pts ea)

- 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

# Group Practice Test Acc (100 pts)

Name \_\_\_\_\_

## Part V: Travel Times (4 pts)

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?

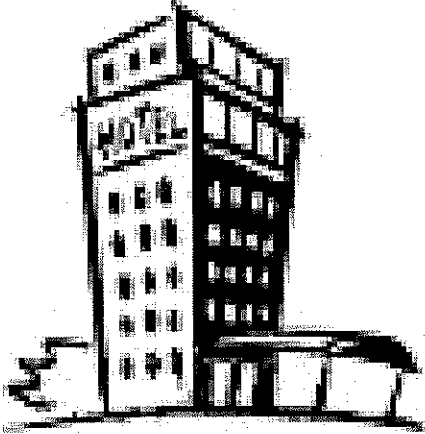
b) You think it takes 1.5 hours to take the train from London to Paris, but it is actually a 2.25 hour ride. What is your percentage error?



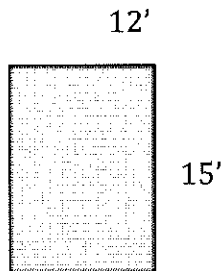
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## Part VI: Lodging (6 pts)



a) You would like to move from a regular room to an executive suite. When each dimension of the room scale model is tripled you have the size of the suite. What is the percent of increase in the area?



b) Three hotels offer rooms at the following prices. Which hotel offers the best buy?

a) Hotel Montholon      regular price \$195      **25% off**

b) Hotel Jules              regular price \$175      **30% off**

c) Hotel Britainique      regular price \$ 185      **28% off**

c) You find a room that is on sale for 30% off. You pay \$150 for the room. Find the original price of the room before any discount.

# Group Practice Test Acc (100 pts)

Name \_\_\_\_\_

d) You find a room that is on sale for 20% off. You pay \$260 for the room. Find the original price to rent the room.

e) Your grandparents purchased Marriott Corporation (the hotel chain) bonds in the amount of \$10,000 when you were born. If the bonds earned simple interest of 5% per year, how much are the bonds worth today? Round your current age to the closest  $\frac{1}{2}$  year.