

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

**Chapter 7 Tiered Problems**

**Show all Work!**

**Standards**

- B.A.SSE.A.2 Use algebraic structures to solve problems involving proportional reasoning in real-world context.

**Tier 1 (up to 60 pts) Complete #1-3 Do not move to tier 2 if you have not completed tier 1.**

**Tier 2 (up to 75 pts) Complete #1-4 Do not move to tier 3 if you have not completed tier 2.**

**Tier 3 (up to 100 points) Complete #1-5.**

1. (20 points) The manager of Music World stocks audio cassettes and CD's in the ratio 2:7. This month she is ordering 400 audio cassettes. How many CD's will she order?
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
2. (20 points) On a map of Tennessee, 1 in. equals 75 miles. What would be the actual distance from Gatlinburg to Memphis if it measures 6 inches on the map?
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
3. (20 points) Smith & Smith is purchasing stocks. The money invested by one partner to the money invested by the other partner was 4:5. The total amount invested is \$31,500. What is each partner's share?

4. (15 points) A rectangular photograph that measures 3 in. by 4 in. is enlarged so that the 4-in side now measures 6 in. What is the area of the enlargement?
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
5. (25 points) Ricardo wants to mix 1 part yellow paint to 3 parts blue paint to make a certain shade of green. How many pints of blue paint will be needed if he wants 1 gallon of green paint? Hint: find out how many pints are in one gallon first.