## BLM 10-4

## **Chapter 10 Problems of the Week**

**1.** To keep the mobile balanced, each side of each arm must have the same value. Determine the value of each shape. Note: Each shape has a different value. 96 660660 3. Aunt Katrina had a child on the same **2.** Is the following solution correct? Justify your answer. date for three consecutive years. If the sum of the children's ages is 36, how old x - 3 = 7are Aunt Katrina's children? x - 3 + 3 = 7 + 3x - 6 = 10x = 10 - 6x = 4**4.** Every time my bicycle wheel **5.** During a competition drill at your makes one full revolution, basketball practice, you and a partner I hear a click. I have heard are given 5 min to sink as many threepoint shots as you can. Players score 100 clicks. I have travelled 173 m. What is the diameter three points for every successful shot and lose two points for every missed of my bicycle wheel? Give your answer to the nearest shot. Your partner does not miss a shot centimetre. but sinks six fewer shots than you do 0 and ends up with a score of 30 points. a) How many successful shots did you make? **b)** You missed 10 shots during the drill. 1 m= 100 cm Did you win the game? **c)** How might your answer in part b) affect your game strategy? **d**) Can you create a combination that results in a tied score for two players? **6.** Rod's Limousine Service **7.** Create a story problem that uses two operations and that has 17 as its charges \$8/person plus \$3/km driven. If four people had a answer. **Note:** The two operations total bill of \$143, how far was cannot be opposite operations. the ride?