LIKE TANYA’S TERRIFIC T-SHIRTS #14 p45 AND QUIZ 2

Question 1

Rory shopped for souvenirs at Pebble Beach. He had $75 to spend. He could choose between the following items. A Pebble Beach golf towel costs $25, a Pebble Beach golf hat costs $15, and a Pebble Beach golf ball costs $5. In how many ways could he spend all $75 on some combination of towels, hats, and balls? He does not have to buy every item, he can buy just 5 golf hats for example. He does have to spend all $75.

**10 points**

5 points for detailed solution (make the list), 3 points for written summary (3-5 sentences explaining your approach), 2 points for final answer (number of ways).

LIKE HIGH SCORERS PROB B #4 p72

Question 2

Five even numbers add up to 100. The greatest of the five numbers is 28. The last digit of each number is different. One pair of numbers adds up to 32. A second pair of numbers, consisting of two different numbers than the first pair, adds up to 46. What are the five numbers?

**10 points**

5 points for detailed solution (make a list and/or a drawing), 3 points outlining the steps of your approach with notes on how you eliminated options, 2 points for final answer \*please circle\* (what are the 5 numbers?).

LIKE WAYS TO SCORE PROB B #5 p72

Question 3

In rugby, points can be scored in four different ways. A try is worth 5 points. After scoring a try, a team can get a conversion worth 2 points. It is not possible to score a conversion unless a try is scored first. There are also two different kinds of kicks. A penalty kick is worth 3 points, and a drop kick is also worth 3 points. Last week the Northampton Wanderers scored 29 points in a rugby match. In how many different ways could this have occurred? (You should consider scoring 3 points with a penalty kick to be different than scoring 3 points with a drop kick.)

LIKE BACKBOARD MP #3 p26

Question 4

Annie the Dog loves to run. When we were walking home one day, she ran ahead of us, went all the way home, and then came back to meet us. She then ran back home again and came back to meet us. She did this three more times. Each time she came back, she met us at a point halfway from where she had left us. If she started running while we were about half a mile from home (let’s say about 2400 feet), how far did she run in total by the time she met us the fifth time?

Two women (Cory and Shawna) and two men (Rohan and Brandon) each have a favorite TV show. Two of the TV shows are comedies (The Big Bang Theory and Family Guy) and two are dramas (Lost and Life on Mars). From the clues below, figure out which TV shows each person enjoys.

1. One man likes a comedy; the other man likes a drama.

2. Cory has never seen Lost. She has seen Family Guy but doesn’t like it.

3. Rohan has never heard of Life on Mars.

4. Brandon’s favorite show is The Big Bang Theory. He likes it because everyone uses a laptop computer to do cool things.

Tigger and Roo decided to have a race. Roo could make four jumps of 3 feet each in the same time that Tigger could make three jumps of 4 feet each. The racecourse was 75 feet long, with the race being up and back. (So that’s 150 feet total.) Who won and by how far?

**10 points**

5 points for detailed solution (drawing and/or list), 3 points for a summary of your approach, 2 points for final answer \*please circle\* (who won and by how much).

Disney Movie Club made me an offer I couldn’t refuse. For their low prices I could buy millions of movies (BluRay) and save millions of dollars. Well, anyway, I joined. The first month I bought 3 discs, and the cost was $43.66, which included the shipping and handling. The second month I ordered 6 for a total of $79.03. For $55.45 I bought 4 discs the next month. I paid $90.82 for 7 discs the next month. I looked through their catalog and picked out 53 more discs that I wanted to buy sometime. If I buy all 53 at once, then I pay the shipping and handling fee only once. On the other hand, if I buy them in smaller groups, well . . . What I really need to know is, how much would it cost to buy all 53 discs as one order?

**10 points**

5 points for detailed solution (drawing and/or list), 3 points for a summary of your approach, 2 points for final answer \*please circle\* (how much are 53 discs all at once).