MathFLIX CHALLENGE

Problem Solving Strategy: Draw a Diagram

Problem	Diagram	Leading Questions	Answers
Marcus has three cousins named Omar, Adrian and Rebecca. Omar is 3 years older than Marcus. Adrian is 7 years younger Omar. Rebecca is the oldest of the four.		a) Is Marcus older than Rebecca? b) Put Marcus and his cousins in order from oldest to youngest. c) Marcus is how many years older than Adrian ?	_____ _____ _____ _____ _____ _____
At *Forest Preserve Mountain* you can rent sleds. Each sled can carry 2 adults at a time, or 4 children at a time. The sled operator only starts sleds when they are full, and the operator never puts adults and children on the same sled.		Does the operator ever start a sled with three children? How many adults can ride on 5 sleds? In one race on Sunday morning, 8 sleds carried 24 people. How many of the sleds were carrying adults? Children?	_____ _____ _____ _____
As a service learning project, students designed a game that uses two spinners. One spinner is divided evenly into sections that are numbered 1,2,3 and 4. The second spinner is divided evenly and the sections are numbered 1 and 2. The game board has 5 squares numbered 2,3,4,5, and 6 and a colored game piece is used by each player. To play, a player puts a game piece on a number. The player spins both spinners and adds the total of both spinners. If the sum matches the number on the square where the player's game piece is - the player wins.		Should the students have put a 1 on the game board? Rafael chose the number 2 on the game board. How many ways can he win? Lana chose the number 5 on the game board. How many ways can she win? Which numbers give you a better chance of winning?	_____ _____ _____ _____