

4. [4 pts - 1 each] For each separate part below, name a DIFFERENT problem-solving strategy among those we've studied that could reasonably be attempted to solve it. Also justify each choice in a sentence, referring to general characteristics necessary for that strategy. Take care to tell "WHY to choose, not HOW to use." **Don't actually solve the problems.**
- (a) Yasmin arrived home from play practice at 5:25 P.M. The walk home took 15 minutes. Practice began 20 minutes after the final bell and lasted for a 50 minutes. When did school end?
- (b) Katy earns \$19 per hour on weekdays, time-and-a-half on the weekend, and double-time on holidays. She recently worked 6 hours on Thursday, 5 hours on Saturday, and 9 hours on New Year's Day, a holiday. How much money did Katy earn in all?
- (c) Kelly is making bracelets that have five colorful beads in the center. The beads are red, yellow, green, orange, and blue. She always uses either 2 or 3 red beads for each bracelet. If she then has the remaining beads be all the same color, how many different looking bracelet designs can she make?
- (d) Tom, Andrew, and Gina have different favorite colors among red, yellow, and blue. No one's favorite color has the same number of letters as their name. Gina doesn't like red. What is Tom's favorite color?
5. [1 pt - 0.5 each] Choose a problem among #4(a)-#4(d) that would NOT be suited to each strategy below. You may reuse a problem if you like. No justifications needed.
- (a) Guess and Check
- (b) Algebra/Write an Equation