

Problem-Solving Strategy: Use Models

Use the questions to help you solve.

- Jacob is a starter on the basketball team. He has scored 12 or more points in half the games he's played. The coach thinks the team has a 75% chance of winning today's game. What is the probability that Jacob will score fewer than 12 points and the team will lose?

UNDERSTAND

What combination of events does the question ask about?

What is the probability of each of those events occurring individually?

PLAN

How can you use a model to simulate the problem?

How many trials should you perform?

SOLVE

How will you record your results?

What is the experimental probability of the events occurring together?

LOOK BACK

Is your model an accurate representation of the problem?

- The coach thinks the team has a 60% chance of winning next week's tournament if they win today's game. What is the chance that the team will win both today's game and the tournament?
