

**GRADE 11 ESSENTIAL
PROBLEM SOLVING
DRAW A PICTURE**

Name: _____
Date: _____

Different Strategies. There are many strategies to solve a problem. Guess and Check; Make a list; Work Backwards; Solve a Simpler Problem; Make a Table; Draw a Picture; Use Logical Reasoning; Use a Venn Diagram; and more.

Draw a Picture. Drawing a picture is a rather fundamental way to solve a problem. No need for fancy equations.

Show Work: A numerical answer is not sufficient!

1. The deck in Hope's backyard is round. It has 5 posts evenly spaced around the edge to support a trellis. For her birthday party, she wants to connect each post to all the other posts with crepe-paper streamers. How many streamers will she need?

2. Asher's kite flew the highest. Baxter's kite was 50 feet lower than Asher's but 100 feet higher than Cranby's. Cranby's kite was 100 feet higher than Dudley's. Dudley's kite was 300 feet above the ground. How high was Asher's kite?

3. Derek planted a garden in the shape of a square 32 feet on each side. The garden has a stream on one side, but he plans to build a fence on the other three sides. If he puts a fencepost every 8 feet, how many posts will he need?

4. Five cars entered the Euclidean Grand Prix auto race. They were given numbers for identification. Car 33 came in last. Car 55 came in ahead of Car 22 but behind Car 44. Car 22 came in ahead of Car 66. Which car won the race?

Ans: 10 ; 550 ft; 13 ; 44