

**GRADE 12 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. Hope's Mom baked a cake for Hope's birthday. It is in the shape of a rectangle 10 inches long and 6 inches wide. If she starts at one corner and puts a candle every 2 inches, how many candles will fit around the edge of the cake?

2. Four friends went to a park to fly kites. Asher stood 50 feet due west of the flagpole. Baxter stood 50 feet due north of Asher. Cranby stood 100 feet due east of Baxter. Dudley stood 50 feet due south of Cranby. How far was Dudley from the flagpole?

3. Gompers is trying to cut a round pizza into the largest possible number of pieces with 3 straight cuts of the knife. He can't restack or rearrange the pieces after a cut. What is the largest number of pieces he can cut?

4. Driving along Route 77, Zeke passed the towns of Barn, Jam, Ram, and Wam, in that order. He noticed it was 27 miles from Barn to Jam and 33 miles from Ram to Wam. On his return trip, he noticed it was 100 miles from Wam to Barn. How far is it from Jam to Ram?

Ans: 16; 50 ft; 7; 40