To solve application problems:

1. _____________________________________________________________

2. _____________________________________________________________

3. _____________________________________________________________

THE LADDER PROBLEM

You are looking at a 24 foot ladder at LOWE’S. The safety instructions say that the base of the ladder should never be closer than 8 feet to the wall. You want the top of the ladder to reach 21 feet up the wall. Is the 24 foot ladder long enough?

Draw and Label the picture here: Write the equation and solve it.

Let’s say Bob and Larry are meeting at Blockbuster on the corner of Park and Pleasant Street. Presently, Bob is on Park Street to and is 8 miles away. Meanwhile, Larry is on Pleasant Street 7 miles away. How far away are they from each other?

Jeremy goes to White Water Amusement Park. While there he decides to go down the park's huge water slide called Lightning. If the slide is 48 feet high and the base of the slide is 36 feet from the pool, then what is the length of the slide?
A fire truck parks 25 ft away from a building. The fire truck extends its ladder 65 ft. How far up the building from the truck's roof does the extension ladder reach?

A Sony television has a rectangular screen with a diagonal measurement of 15 inches. If the screen has a height of 9 inches, what is the width of the screen?

Two ships leave port at the same time. Ship X is heading due north and Ship Y is heading due east. Thirteen hours later they are 650 miles apart. If the Ship X had traveled 520 miles from the port, how many miles had Ship Y traveled?

Miss Husser drives nine miles south and then twelve miles east. What is the diagonal distance from her starting point?