



Plane and Simple are building a ramp to load and unload the trucks that come to their factory. The ramp has to be 3 foot high at the side that touches the truck and 8 foot long. They need to know how long of a board they will need to make the floor of the ramp.

***Round your answer to the nearest tenth.***

**Directions:** Use the diagram to help you solve the problem. Find the length of the unknown side. Explain all the steps you took to solve the problem and the mathematic concepts used to solve the problem.

Prompt 1: Recall the Pythagorean

Prompt 2: Find the squares of side a and side b.

Prompt 3: Use the sums of the squares and find the square root.

Prompt 4: Explain each step you to find your answer.


skills used

applying the Pythagorean formula to a problem, operations with variables, order of operation, and computation