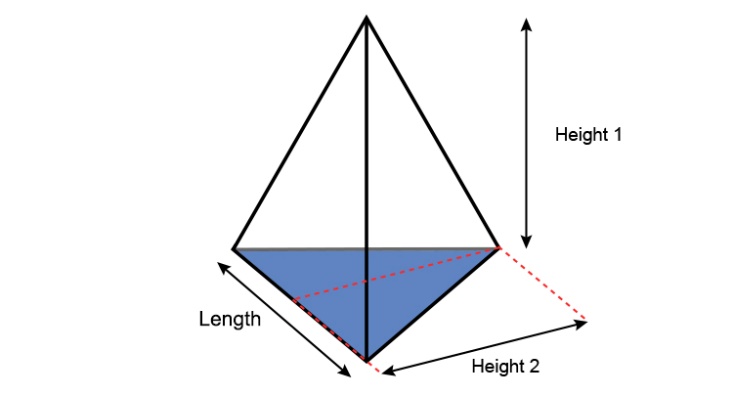
Solve the given problems and show your complete solution (3 points each).

1. When is divided by the remainder is 45. When divided by the remainder is 0. Find and



Altitude

1. Find the height of a triangular-based pyramid, including the length and altitude of the base if the volume of the pyramid is cubic feet and the length of the base is 3 less than twice the height and the altitude is 2 less than the height.
2. A ball was thrown upward with initial velocity of from the ground. If the acceleration of gravity is ,
3. what is the maximum height? Answer: 20m
4. after how many seconds will it reach the height of 15m? Answer: 1 sec and 3 seconds
5. A class trip with a fixed cost of will be evenly divided to the number of attendees. If there had been 10 more attendees, the cost per attendee would be less. How many joined the trip?

Answer:

Challenge Problem

1. Find the height of a triangular-based pyramid, including the length of the three sides of the base if the volume of the pyramid is cubic feet and the length of the three sides of the base are 3 less than the height, 2 less than the height, and three more than half the height.

b

a

height

c